APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a Definite Recommendation as to the Proper Grading in Each Case be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. Communications Relating to Applicants are considered by the Board as Strictly Confidential.

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from March 15, 1931.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	35 years	12 years*	5 years
Associate Member	Qualified to direct work	27 years	8 years*	1 year
Junior	Qualified for sub-professional work	20 yearst	4 years*	(1 minute) (1 minute)
Affiliate	Qualified by scientific acquire- ments or practical experience to co-operate with engineers	35 years	12 years*	5 years
Fellow	Contributor to the permanent funds of the Society			1000

^{*} Graduation from a school of engineering of recognized reputation is equivalent to 4 years active practice.

[†] Membership ceases at age of 33 unless transferred to higher grade.

APPLICATIONS FOR ADMISSION, AND FOR TRANSFER

LIST OF APPLICANTS.

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The abbreviations in Italics represent, respectively, TT. Total Time: SP. Sub-Professional Work: P. Professional Work: RC. Responsible Charge: D, Design. The figure for Total Time is determined by adding one-half the time spent in Sub-Professional Work to the time spent in Professional The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of four years for graduation or of one-half of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Professional Work.

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FOR ADMISSION

(1) AMMANN, HERMAN LOUIS, 417 Fifth Ave., New York City. (Age 44. Born Schaffhausen, Switzerland.) 1911 Univ. Graduate Engr., Royal Tech. Univ. of Stuttgart, Ger--1911 to 1912 Designing Engr., Locher & Co., Zurich, Switzerland, on water-power plants. TT 1: P 1: D 1.-1912 to 1913 designing and detailing steel bridges with C. F. Kunz, Cons. Engr., Philadelphia, Pa. TT 1.1: P 1.1 .- 1913 (about 4 months) with G. Lindenthal, New York City, as Inspector on bridge construction in Pittsburgh, Pa. TT 0.2: SP 0.2.-1913 to 1914 with Detail Dept., Bridge Constr., McClintic-Marshall Constr. Co. TT 0.8: P 0.8 .--1914 to 1915 Officer, Swiss Army.-1915 to 1922 Gen. Supt. and Managing Engr., A. G. Buss, Ltd., Basel, Switzerland, bridge and plate construction plants in Basel, and Milan, Italy. TT 6.7: P 6.7: RC 6.7: D 4.-1922 to 1927 with Quasi-Arc Co., Ltd. (Elec. Welding), London, England, as Gen. Representative and Managing Engr., Continental Branch, Zurich, then Tech. Director, Secy. and Mgr., Quasi-Arc, Inc., New York City at present Prof. Engr. Consultant for Industrial Welding, New York City. TT 9: P 9: RC 9: D 5.-TT 18.8: P 0.2: RC 18.6: RC 15.6: D 10. Refers to O. H. Ammann, H. E. Gruner, M. G. Littlefield, C. D. Loveland, R. A. Pendergrass. 166

(6) APPEL, EMIL ERNEST, 1726 Koppers Bldg., Pittsburgh, Pa. (Age 49. Born Pittsburgh, Pa.) Registered Prof. Engr., Commonwealth of Pennsylvania. Dec. 1899 Feb. 1901 Rodman, Chainman and Transitman with Lippincott & McNeil, Civ. Dec. 1899 to Min. Engrs., Pittsburgh, Pa., on surveys, etc. TT 0.6: SP 0.6 .--March 1901 to Dec. 1905 Transitman and Draftsman, Mellon Eng. Dept., Pittsburgh, on location and construction of electric railways (over 34 miles), and on surveys, paper locations and estimate of cost of steam railroads (122 miles) in Western Pennsylvania, etc. SP 2.4.—Jan. 1906 to June 1907 Asst. Engr., Allegheny Valley St. Ry. Co., on maintenance, and on location and construction (107/10 miles), and reconstruction of double tracking (21/2 miles), in charge of design and of part of field work. TT 1.5: P 1.5: RC 1.5: D 0.8 -July 1907 to Oct. 1908 and May 1910 to April 1912 Asst. Engr. with Geo. S. Davison, Cons. Engr., Pittsburgh, until Oct. 1908 checking plans, estimates, etc., for Bond Underwriters of Pittsburgh, Harmony, Butler & New Castle Ry., and after May 1910 in charge of design, reports on various projects, and at Port Arthur, Tex., on location and dredging of 11/2 miles of ship canal and turning basin, design and construction of concrete wharf, location and construction of railroad track (3% miles), relocation of drawspan bridge, etc. (\$350 000). TT 3.3: P 3.3: RC 3.3: D 2.—Nov. 1908 to April 1910 and May 1912 to date with Gulf Refining Co., Pittsburgh, until April 1910 as Asst. Engr., Sales Dept., in charge of design of structures and tanks for bulk-oil distributing stations, May 1912-Feb. 1929 Asst. Engr., Sales Dept., and Asst. Supt. of tank car equipment, in charge of design and of part of construction of tanks and structures (office buildings, warehouses, garages, shops, wharves, bulkheads, etc.), for ocean terminal and bulk-oil distributing stations in New England, Middle Atlantic and Southern States; provision for rail and water transportation facilities, layout and installation of piping systems, reconstruction of underframes of 1 200 tank cars, etc.

(\$2 500 000 in 1912 to \$10 000 000 in 1928); since March 1929 Asst. Engr. in charge of design and construction of Gulf Bidg. (42 stories, \$7 000 000). TT 20.3: P 20.3: RC 20.3: D 14.7.—TT 32.1: SP 3: P 29.1: RC 25.1: D 17.5. Refers to G. S. Davison, C. L. Fox, W. C. Hawley, H. Henderson, C. S. Landers, J. M. Rayburn, C. M. Reppert, J. D. Stevenson.

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- (1) ARMSTRONG, WALLACE EDGAR, 2390 Prince Edward St., Honolulu, Hawaii. (Age 39. Born Lebanon, Conn.) 1916 B. S. in Civ. Eng., Univ. of Vermont. TT 4: P 4.—Oct. 1916 to Oct. 1917 Valuation Engr., being Draftsman and Chf. of Party, Rutland (Vt.) R. R., on maps and surveys. TT 1: P 1: RC 0.5.—Nov. 1917 to July 1919 Private, 2d Lieut. and 1st Lieut, C. A. C., U. S. Army, Fortress Monroe, Va.; 76th Div., Camp Devens, Mass. and France; 3d Army and Advanced G. H. Q., Germany.—Sept. 1919 to Dec. 1920 Grader and Asst. Supt., Vermont Marble Co., Proctor, Vt., in charge of 40 men, yard orders and improving yard layout. TT 1.2: P 1.2: D 1.—Jan. 1921 to date Hydr. Engr., Water Resources Branch, U. S. Geological Survey, acting as Jun., Asst. and Associate Engr. in Boston, Texas and Washington Dists., gauging streams, designing and supervising construction of gauging structures, and at present in Honolulu Dist. as Office Engr., in charge of office and manuscript work. TT 10: P 10: RC 7.5.—TT 15.3: P 15.3: RC 8. Refers to C. E. Ellsworth, N. C. Grover, J. F. Kunesh, J. A. Norris, C. H. Pierce, H. L. Thackwell.
- (16) BABB, BENJAMIN McKINLEY, City Engineer's Office, Lawrence, Kans. (Age 33. Born Garnett, Kans.) Feb. to July 1918 and April to Sept. 1919 Asst. to City Engr., Eldorado, Kans., on paving and sewer construction. TT 0.5; SP 0.5.-March 1920 to March 1923 and Aug. 1923 to March 1927 with Shockley Eng. Co., Cons. Engrs., Kansas City, Mo., as Asst. Res. Engr. and Inspector on paving at Wellsville, Kans., and Res. Engr. on paving and storm and sanitary sewers at Marshall, Mo., paving and resurfacing at Weston, Mo., paving and water-works extensions at Enterprise, Kans., paving and storm sewers at Maryville and Highland, Kans., paving and sanitary sewers at Excelsion Springs, Mo., and paving in six other cities. TT 6.4; SP 0.2; P 6.2; RC 6.2; D 1.-March to Aug. 1923 Draftsman and Chf. of Party on surveys and subdivision layout with Tuttle, Ayers & Woodward, Surveyors, Kansas City, Mo. TT 0.3: SP 0.1: P 0.2: RC 0.2.—March 1927 to date with City of Lawrence, Kans., until May 1928 as Asst. City Engr. in charge of paving and sewer designs and construction, and since then City Engr. in charge of improvements to streets, sewers, etc., including design and construction. TT 4: P 4: RC 4: D 4.-TT 11.2: SP 0.8: P 10.4: RC 10.4: D 5. Refers to E. Boyce, C. S. Constant, E. H. Dunmire, G. M. March, C. D. Miller, H. A. Rice, C. A. Shockley. 169
- (7) BAKER, RUSSELL EPHRAIM, 191 Macalester Ave., St. Paul, Minn. (Age 41. Born Minneapolis, Minn.) 1911 B. S. in Chem. Eng., Univ. of Minn. TT 4: P 4.—Feb. 1911 to Feb. 1912 Carpenter Foreman for Libby & Nelson, Contrs., on Eng. Bldgs., Univ. of Minnesota.—Feb. 1912 to April 1914 and April 1916 to Jan. 1919 with Butler Bros. Bldg. Co., St. Paul, Minn., until April 1914 as Supt. of Constr. and Estimator, St. Mary's Boys Coll. and St. Mary's Hospital Bldgs., and after April 1916 Supt. of Constr. on design of mining washing plants and Gen. Mgr. of Constr. Dept. TT 3.8: SP 1.1: P 2.7: RC 2.7: D 1.5.—April 1914 to April 1916 Estimator, F. J. Romer Constr. Co., St. Paul, structural engineering on Golden Rule Bldg. TT 1.6: SP 0.4: P 1.2: RC 1.2: D 0.7.—Jan. 1919 to March 1930 Vice-Pres. and Secy. and Gen. Mgr., C. H. Young Co., St. Paul, cut stone and marble mill, in complete charge of mill, yard and setters. TT 11.2: P 11.2: RC 11.2.—March 1930 to date Estimator and Engr., Lovering-Longbothom Co., St. Paul, in charge of construction of buildings and bridges. TT 1: P 1: RC 1.—TT 21.6: SP 1.5: P 20.1: RC 16.1: D 2.2. Refers to H. H. Burgess, W. N. Carey, G. C. Darrell, W. E. King, H. D. Lovering.
- (7) BLAIR, ROY JAMES, Fairmont, Minn. (Age 38. Born near Wadena, Minn.) 4 years student, Civ. Eng. course, Univ. of Minnesota. TT 2: P 2.—July 1924 to April 1928 Jun. Engr. and Asst. Engr., Chart Div., U. S. Lake Survey, Detroit, Mich., compiling and revising charts of Great Lakes, over 3 years as Asst. to Chf. of Div. had direct supervision over Drafting and Engraving Sects. TT 3.8: P 3.8: RC 3.2.—May 1928 to date Computer and Instrumentman, Minnesota Dept. of Highways, computing and designing plans for road construction, in charge of party running line, taking levels and cross-sections and staking grades. TT 2.8: P 2.8: D 1.2.—TT 8.6: P 8.6: RC 3.2: D 1.2. Refers to F. Bass, A. S. Cutler, H. M. Hill, O. M. Leland, F. G. Ray.

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(1) BONNER, DAVID, Loudon Woods, Rye, N. Y. (Age 42. Born Greenwich, Conn.) 1909 C. E., Princeton Univ. TT 4: P 4.—Summers 1907 and 1908 Draftsman, Pennsylvania Cement Co., drawings of repair pts. and alterations, Timekeeper, etc.—July 1909 to April

1926 (except Jan. 1914 to March 1916 as Vice-Pres. and Gen. Mgr., Barker-Bonner, Inc., constructed twelve miles of concrete asphaltic concrete roads in Maryland and Greenwich, Conn.) with Henry Steers, Inc., as follows: July to Nov. 1909 Timekeeper; Nov. 1909 to Sept. 1910 Supt. of Constr., on reinforced concrete piers at 31st and 33d Streets, Brooklyn; Sept. to Dec. 1910 Supt. of extra work at Manhattan Transfer Station. Pennsylvania R. R.: Dec. 1910 to May 1911 Asst. to Estimator and Designer; May to Oct. 1911 Supt. of Constr., on reinforced concrete Pier 11, Jersey City, Central R. R. of New Jersey; Oct. 1911 to March 1912 Estimator and Designer, on bulkhead, ferry bridge, 40 deck scows for New York harbor work; March 1912 to July 1913 Supt. of Constr., on reinforced concrete bridges (5 000 ft. and 3 500 ft.) over Gunpowder and Bush Rivers, Md., on main line of Pennsylvania R. R., designed four floating derricks, two pile drivers, six pump boats and three concrete mixers; July 1913 to Jan. 1914 Estimator and Designer of pier and bulkhead; March 1916 to July 1919 Supt. of Constr., New Jersey Terminal of Dyckman Ferry, Steamship Terminal at Hoboken, N. J., for Lamport and Holt (two pile substructure reinforced concrete piers, pier sheds and offices), D. L. & W. ferry terminal at Hoboken, on reinforced concrete pile substructure car dumper pier (Pier 18) and wooden pier (Pier 19), and demolition of Pier 7, Central R. R. of New Jersey; July to Oct. 1919 Cons. Engr., on design of reinforced concrete pier on steel cylinders filled with concrete for French High Comm. to U. S. A. at St. Pierre and Miquelon; Oct. 1919 to Sept. 1921 Supt. of Constr., on car-float transfer bridges for Lehigh Valley R. R. at Communipaw, and steamship terminal for Wilson line, pile substructure reinforced concrete deck, 2-story steel shed offices; Sept. 1921 to April 1922 Cons. Engr., designed and supervised construction of pier for Moses Taylor. Portsmouth, R. I.; April 1922 to Nov. 1923 Supt. of Constr., on concrete gravity dam in Stamford, Conn.; Nov. 1923 to March 1924 Supt. of extra work on foundations for Western Elec. Factory in Kearny, N. J.; March 1924 to Oct. 1925 Designer and Supt. on sand and gravel plant, pier, pile and spread foundations, reinforced concrete tunnels, retaining walls, conveyors, screening plant, etc.; Oct. 1925 to April 1926 Constr. Supt.. pler and bulkhead, New York Dock Dept., Pier 35, East River. TT 16.8: P 16.8: RC 16: D 2.8.—April 1926 to May 1927 with Raymond Concrete Pile Co., as Constr. Supt., on reinforced concrete bridge on concrete piles, Atlantic Beach and pile foundations, east approach, Hackensack Bridge, D. L. & W. TT 1.1: P 1.1: RC 1.1.—May 1927 to Nov. 1930 Cons. Engr., W. N. Beach and J. J. Hagerty, on urvey of crushed stone, sand and gravel and cement rock supply in Metropolitan area including design of plants. TT 3.5: P 3.5: RC 3.5; D 1.5.-Nov. 1930 to date Constr. Engr., Rodgers & Hagerty, negotiating contracts and observing new developments in construction work. TT 0.3: P 0.3: RC 0.3.-TT 25.6: P 25.6: RC 20.8: D 4.3. Refers to W. N. Beach, C. M. Blair, R. A. McMenimen, W. D. Malcolm, C. E. Trout, J. J. Vail, H. E. Van Ness, J. L. Vogel, H. E. Weatherlow, H. R. Wheeler, A. M. Zabriskie.

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(15) BRADFORD, STUART EMERSON, 4108 Canal St., New Orleans, La. (Age 33. Born Hyannis, Mass.) 1921 B. S., Mass. Inst. Tech. TT 4: P 4.—June 1921 to June 1922 Asst. Instructor in Civ. Eng., Massachusetts Inst. of Technology. TT 1: P 1.- June 1922 to Jan. 1923 Asst. Engr., Barney Ahlers Corporation, New York City, being Field Engr. for construction layout on two reinforced concrete buildings, Yonkers, N. Y. TT 0.7; P 0.7. Jan. 1923 to Oct. 1925 with Thompson Starrett Co., New York City, until Sept. 1924 as Cost Engr. on Buffalo (N. Y.) filtration plant, then Chf. Clerk on construction of Rochester Baptist Temple .- Nov. 1925 to date with Raymond Concrete Pile Co., New York City, until May 1926 as Job Engr., acting as Layout Engr. on construction and remodeling at Castanea Paper Co., Johnsonburg, Pa., May to Sept. 1926 Pile Driving Supt., driving piles for three buildings in Brooklyn, N. Y., and after Oct. 1926 Job Engr. on port development at Buenaventura, Colombia, in charge of topographical and hydrographic survey (80 sq. ml.), subsoil and location investigations for construction of marginal pier (2 400 ft.), bridge (760 ft.), airport development, hydraulic dredging, designs covering special job conditions and proposed projects, also layout work for construction, and (since June 1930) on construction of 28 000-ft. bulkhead, Lake Pontchartrain, La. TT 5.3: P 5.3: RC 5.3: D 1 .- TT 11: P 11: RC 5.3: D 1. Refers to J. J. Collins, R. A. McMenimen, W. V. McMenimen, J. A. Smith, H. E. Weatherlow, R. K. West. 173

(9) BRAY, DWIGHT HUBERT, 218 Steele St., Frankfort, Ky. (Age 30. Born Indianapolis, Ind.) 1924 A. B. in Geology, Univ. of Mo. TT 2: P 2.—Completed 3 years' work for B. S. in Civ. Eng., Univ. of Missourt.—Dec. 1918 to Sept. 1919 Chainman and Rodman, St. Louis-San Francisco R. R. TT 0.4: SP 0.4.—April 1922 to Sept. 1923 and June 1924 to date with Kentucky State Highway Dept., until Sept. 1923 as Instrumentman, then (3 years) Res. Engr. in charge of construction of highways and bridges, June 1927 to April

1929 Asst. Dist. Engr. (1 year) and Dist. Engr. (over 9 months) in charge of work in seventeen counties, and since April 1929 Asst. Engr. of Maintenance, in charge of highway maintenance of all state-maintained roads. TT 7.4: SP 0.7: P 6.7: RO 6.7.—TT 9.8: SP 1.1: P 8.7: RC 6.7. Refers to C. R. Bloxton, H. R. Creal, P. D. Gillham, J. T. Lynch, J. T. Madison, M. D. Ross.

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(1) BROKER, CLIFFORD, 5 Westminster Road, Brooklyn, N. Y. (Age 27. Born Jersey City, N. J.) 1929 B. S. in C. E., Worcester Pol. Inst. TT 4: P 4.—At present student in C. E., Polytechnic Inst. of Brooklyn.—Summer 1925 Transitman, Spinello Constr. Co., on line and grade for sewer construction.—Summer 1926 Transmitman and Draftsman with City Engr., Long Beach, N. Y., on sewers, pavements, jettles, etc.—Summers 1927 and 1928 and June to Nov. 1929 Draftsman and Designer with Alexander Potter, New York City, on reinforced concrete, hydraulics, design of sewers, water-supply system, etc. TT 0.4: P 0.4: D 0.4.—Nov. 1929 to date Designer, Elec. Bond & Share Co., New York City, on reinforced concrete, hydraulics, hydro- and steam-electric stations, substations. TT 1.3: P 1.3: D 1.3:—TT 5.7: P 5.7: D 1.7. Refers to A. N. Aeryns, T. R. Camp, S. G. Hess, H. Ohlgart, B. J. Smith.

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(12) BUCK, GEORGE WASHINGTON, 601 Court House, Portland, Ore. (Age 53. Born St. Paul, Minn.) 1899 L. L. B., Univ. of Minn. TT 2: P 2.—Summers 1896 to 1899 Chainman, Rodman and Inspector, Great Northern Ry .- 1901 to 1902 with Fremont, Elkton & Missouri Valley Ry., Omaha, Nebr., as Instrumentman on maintenance drafting and location, in charge of field party on maintenance. TT 1.4: SP 0.4: P 1 .-- 1902 to 1903 Draftsman, and 1904 to 1905 Instrumentman on location and Asst. Engr. on construction of double track, Kansas City to Topeka, Union Pacific R. R., designed round houses, coaling stations, bridges, culverts, etc. TT 2.2: SP 0.2: P 2.-1903 to 1904 Draftsman, Santa Fe R. R., Shawnee, Okla. TT 0.3: SP 0.3 .- 1905 to 1907 Locating Engr., Oregon Short Line R. R., on surveys. TT 2.2: P 2.2: RC 2.2 -- 1908 to 1909 Locating Engr., Utah Copper Co. (Bingham & Garfield R. R.) TT 0.7: P 0.7: RC 0.7 .- 1909 to 1911 Acting Asst. Chf., Oregon R. R. & Navigation Co. (U. P. R. R.) in charge of locations and main line, reconstruction, reconnaissance of proposed lines. TT 2.1: P 2.1: RC 2.1.-1911 to 1912 on location of main canal system, Kittitas Reclamation Dist. TT 0.7: P 0.7: RC 0.7.-1912 to 1914 with Kettle Valley R. R. (Canadian Pacific) in charge of location and construction, Okanagan Summit West Div. TT 2: P 2: RC 2.—1914 to 1923 on his ranch: did very little engineering.—1923 to 1924 Eng. Witness, U. P. R. R., prepared exhibits, etc., I. C. C. cases. TT 1.5: P 1.5: RC 1.5: D 1.5 .- 1925 to date Engr. and Roadmaster, Multnomah County (Ore.), in charge of engineering and maintenance of roads, buildings, bridges, ferries, etc. TT 6: P 6: RC 6: D 6. TT 21.1: SP 0.9: P 20.2: RC 15.2: D 7.5. Refers to R. D. Hoyt, R. A. Klein, O. Laurgaard, S. Murray, J. P. Newell, M. E. Reed, H. P. Warren.

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(1) BULLARD, DEXTER, Kew Hall, Kew Gardens, N. Y. (Age 23. Born Boston, Mass.)
1931 B. S., Lehigh Univ. TT 4: P 4.—April to Sept. 1926 Rodman with Stone & Webster, Conowingo, Md.—TT 4: P 4. Refers to S. A. Becker, C. D. Jensen, W. A. Slater, C. H. Sutherland, E. H. Uhler, W. L. Wilson.

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(11) CALAHAN, PECOS HILL, 366 West Elk St., Glendale, Cal. (Age 45. Pecos, Tex.) Registered Civ. Engr., State of California.—1904 to 1907 Chainman, Rodman, Recorder and Levelman, U. S. Reclamation Service, Yuma, Ariz., surveys, construction and computations. TT 1.7: SP 1.7.- Jan. to April 1908 Levelman-Computer, California Development & Irrigation Co., levee construction on Colorado River south of Mexican border. TT 0.2: SP 0.2 .- May 1908 to Aug. 1911 (short intervals) on townsite surveys, office work, etc. TT 0.3: SP 0.3. - Sept. 1911 to Feb. 1913 Rodman, Levelman, Computer-Inspector, Wichita Falls and Northwestern Ry., Red River to Woodward, Okla., last six months acted as Res. Engr. on bridge construction, records and inspection. TT 1: SP 0.5: P 0.5: RC 0.5 .- March 1913 to March 1920 with Chicago, Rock Island & Pacific Ry., El Reno, Okla., until Nov. 1917 Rodman, Inspector and Transitman, then Asst. Div. Engr., responsible for surveys, inspection, design of minor structures, estimates, track and bridge location and construction, investigations, topographical surveys, drainage, etc. and after Aug. 1919 Dist. Chemist, testing and prescribing treatment for water used in locomotives, investigations and inspection of new treating plant installation. TT 6.2: SP 0.8: P 5.4: RC 5.4: D 2.7.—Nov. 1920 to Oct. 1922 and July 1923 to Oct. 1924 with Atchison, Topeka and Santa Fe Ry., until Oct. 1922 in Estimator's Office of Valuation Engr., making studies of original earthwork costs and quantities, and reproduction costs and after July 1923 Draftsman, Office of Chf. Engr., making maps, track and yard layout, computations, checking plans, etc. TT 3.2: P 3.2: RC 2: D 0.7.—Nov. 1922 to June 1923 Engr. with V. J. Rowan, Los Angeles, Cal., on sub-division development, surveys, design, construction and inspection of track layout and drainage. TT 0.7: P 0.7: RC 0.7: D 0.7.—Oct. 1924 to date Engr., Associated Gen. Contrs., Los Angeles, being Editor "California Constructor", also Eng. Consultant, on investigations, reports, review of plans, specifications, contracts, etc. for building and engineering construction; also since Oct. 1929 Asst. Secy., California State Board of Registration for Civ. Engrs. TT 6.4: P 6.4: RC 6.4: D 2.5.—TT 19.8: SP 3.6: P 16.2: RC 14.9: D 6.6. Refers to P. H. Albright, D. M. Baker, M. Dozier, Jr., W. C. Hogoboom, A. L. Sonderegger.

- (4) CASSEL, ALBERT MORRIS DILWORTH, Pottstown, Pa. (Age 23. Born Philadelphia, Pa.) 1930 B. S. in C. E., Towne Sci. School, Univ. of Pa. TT 4: P 4.—July 1930 to date Apprentice, McClintic-Marshall Constr. Co., Pottstown, Pa., in drafting room on bridge and building detailing. TT 0.8: SP 0.3.—TT 4.3: SP 0.3: P 4. Refers to W. H. Barton, Jr., H. C. Berry, F. P. Witmer.
- 170 (3) CHURCH, EARL FRANK, Parish, N. Y. (Age 40. Born Parish, N. Y.) 1911 C. E., Syracuse Univ. TT 4: P 4. - July 1911 to Feb. 1913 Field Officer, U. S. Coast and Geodetic Survey, gravity determinations in northwestern states, astronomic observations, topography and triangulation on Alaska coast. TT 1.5: P 1.5 .- Feb. 1913 to Oct. 1915 Computer, International Boundary Comm., and May to Oct. 1915, May to Sept. 1917, May to Aug. 1919 and April to Dec. 1923 Computer, U. S. Coast and Geodetic Survey. Washington, D. C., on least-square adjustments of geodetic triangulation, astronomic computations, etc. TT 4.2: P 4.2-Summers 1913 to 1916 Instructor in astronomic and geodetic work, Columbia Univ. Summer Eng. Camp. TT 0.4: P 0.4.-Oct. 1916 to April 1917 Astronomer and Topographer, Alexander Hamilton Rice expedition up Rio Negro in Brazil. TT 0.5: P 0.5 .- Oct. 1917 to April 1919 1st Lieut., 29th Engrs., A. E. F., France, training officers and men in, and in charge of, geodetic computations at G-2-C, 2d Army. TT 1.5: P 1.5: RC 0.5 .- Sept. 1919 to Sept. 1927 (except April to Dec. 1923), not on engineering work .--- Sept. 1927 to date Asst. Prof., Applied Mathematics, Coll. of Applied Science, Syracuse Univ., since Feb. 1930 teaching aerial photographic surveying and mapping. TT 1: P 1: RC 1.-TT 13.1: P 13.1: RC 1.5. Refers to H. G. Avers, C. H. Birdseye, W. Bowle, L. Mitchell, S. D. Sarason.
- (16) COFFMAN, SEYMOUR FRANKLIN, Jr., Y. M. C. A., Topeka, Kans. (Age 22. Born Kansas City, Mo.) 1931 B. S. in Civ. Eng., Kansas Univ. TT 4: P 4. Feb. 1931 to date Draftsman, Bridge Sec., Kansas State Highway Dept.—TT 4: P 4. Refers to W. C. McNown, H. A. Rice.
- (6) COOK, LELAND WAYNE, 1687 Jancey St., Pittsburgh, Pa. (Age 30. Born Stewart, Ohio.) 1924 B. S. in C. E., Univ. of Pittsburgh. TT 4: P 4.—July 1924 to May 1925 Asst. Engr., Stone & Webster, Inc., on Pitt Stadium, on preliminary survey, calculation of earth works, Chf. of Party in charge (under Res. Engr.) of laying out stadium and estimating concrete quantities. TT 0.4: SP 0.4.—May 1925 to Jan. 1926 Engr., Standard Scale & Supply Corporation, Mfrs. of Contrs.' Equipment, laying out construction plants and assisting contractors in choice of construction equipment. TT 0.3: SP 0.3.—Jan. 1926 to date Asst. Chf. Engr., Metzger-Richardson Co., Registered Engrs. and Fabricators, designing and estimating and detailing steel reinforcing for concrete warehouses, garages, coal-storage bins, retaining walls, etc., having charge of designing, detailing and estimating concrete, reinforcing steel and floor construction. TT 4.2: SP 1: P 3.2: RC 2: D 2.—TT 8.9: SP 1.7: P 7.2: RC 2: D 2. Refers to E. F. Blakeslee, M. Brown, J. S. Lambie, L. C. McCandliss, L. W. McIntyre, F. L. Metzger.

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- (8) COX, CLIFFORD BUGBEE, 910 South Michigan Ave., Chicago, Ill. Graduating student awarded Illinois Section prize. (Age 22. Born Fowler, Ind.) 1930 B. S. in C. E., Purdue Univ. TT 4: P 4.—Summer 1929 Inspector, Maintenance Dept., Indiana State Highway Comm., inspecting materials, setting grade stakes, etc. June 1930 to date with Eng. Dept., San. Dist. of Chicago, on experimental design, special reports, drafting, and some field equipment installation. TT 0.3: SP 0.3:—TT 4.3: SP 0.3: P 4. Refers to E. L. Eriksen, G. W. Hand, R. B. Wiley.
- (5) DAVISON, FRANKLYN McKENZIE, 527 District Bidg., Washington, D. C. (Age 37. Born Chicago, Ill.) 2½ years student in Civ. Eng., Armour Inst. of Technology, Chicago, Ill.

TT 1: P 1.—1915 to 1916 Notekeeper, Chicago, Burlington & Quincy R. R., Lines West, Federal valuation, Guernsey, Wyo, TT 0.5: SP 0.5.—1916 to 1917 Draftsman, M. of W., Chicago & Eastern Illinois R. R., Chicago office. TT 0.5: SP 0.5.—1917 to 1919 Engr., 17th Field Artillery, U. S. Army, on reconnaissance and location of batteries, being 2d Lieut., 1st Lieut., Capt. and finally Major. TT 2: P 2: RC 2.—1919 to 1921 at Camp Taylor, Ky., recuperating.—1922 to 1927 Res. Engr. on grade and drain, 2 years with J. M. Pursifull, Hazard, Ky., Hazard-Whitesburg road (14 miles) and 2 years with Florida State Highway Dept., hard surface, bridge. TT 4: P 4: RC 4.—1927 to 1929 Cons. Bridge Engr., Volusia County, DeLand, Fla., building Crows Bluff bridge. TT 2: P 2: RC 2: D 2.—1929 to date Engr. of Maintenance, District of Columbia Highway Dept., Washington, D. C. TT 2: P 2: RC 2: D 2.—TT 12: SP 1: P 11: RC 10: D 4. Refers to H. F. Clemmer, C. N. Conner, J. B. Gordon, J. C. Gotwals, A. W. Kinney, G. E. McNutt, J. W. Oehmann.

(1) DeFRONZO, GEORGE VINCENT, 1811 Ave. O, Brooklyn, N. Y. (Age 25. Born Brooklyn, N. Y.) 1930 C. E., Brooklyn Pol. Inst. TT 4: P 4. Refers to H. P. Hammond, E. J. Squire.

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(16) DUCKERING, CHARLES ELMHIRST, 416 Ash Ave., Ames, Iowa. (Age 23. Born Pocatello, Idaho.) 1929 B. A. Sc. in Civ. Eng., Univ. of B. C. TT 4: P 4.—Summer 1925 Chainman, Public Works Dept., British Columbia.—Summer 1926 Senior Rodman and Draftsman, Greater Vancouver Water Board.—Summer 1927 Recorder with Dominion Topographical Surveys of Canada in Rocky Mts.—Summer 1928 and 1929 Instrumentman on construction, Canadian Pacific Ry.—Summer 1930 Instrumentman, Stone & Webster Eng. Corporation, on Osage River power project, Missouri.—Sept. 1929 to date Graduate student and Graduate Asst., Civ. Eng. Dept., Iowa State Coll.—TT 4: P 4. Refers to R. A. Caughey, A. H. Finlay, A. H. Fullay, A. H. Fullay.

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(13) DUFOUR, PAUL EUGENE, 1509 Hearst Ave., Berkeley, Cal. (Age 48. Born Chicago, Ill.) 1905 Asst. Engr., Folsom Gold Dredging Co., in charge of survey party and on field work for gold dredgers.-1906 to 1914 with Southern Pacific Co., as Dredger Inspector, Leveler and Transitman and (after 1907) Asst. Engr. in charge of surveys and construction in California and Oregon, including tunnel, steam-shovel and dredger excavation, grading, trestle, concrete and track work, buildings, bridge construction, etc. TT 7: SP 0.7; P 6.3: RC 5: D 4.—May 1915 to March 1921 with Interstate Commerce Comm., Bureau of Valuation, until Nov. 1915 assisted on field inventory of road and track quantities on Great Northern R. R. in North Dakota and Minnesota, then in San Francisco office of Comm., from Nov. 1915 to 1918 in charge of checking grading quantities and overhaul diagrams, and after 1918 Senior Engr. in charge on adjustment of railroad company's claims for increases in quantities and unit prices, etc. TT 5.3: SP 0.5: P 4.8: RC 2: D 2.-1921 to date with Transportation Div.. R. R. Comm. of California, as Asst. Engr., on valuation, etc., in charge of valuations of Los Angeles St. Ry. Co., Pacific Elec. Ry., Los Angeles City Lines, Southern Pacific auto ferries, and handling State's check of Interstate Commerce Comm.'s valuation of interstate railroads: represented California Comm. on field work in revision of I. C. C.'s tentative valuations and rechecking of classification of grading quantities; since Jan. 1927 Valuation Engr. in charge of Valuation Div., directing valuations for securities, transfer of property, condemnation proceedings, rate-fixing, tax adjustment, etc., and appraising of steam railroads, electric railways, gas and electric production and distribution systems, telegraph and telephone and water distribution and irrigation systems, water transportation and auto stage companies, wharves and docks, etc. (over \$600 000 000). TT 9.9: P 9.9: RC 6: D 5.-TT 22.2: SP 1.2: P 21: RC 13: D 11. Refers to C. H. Byers, W. Hall, P. E. Harroun, A. G. Mott, H. A. Noble, W. Stava.

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(10) DUNHAM, JAMES WARING, Box 667, Vicksburg, Miss. (Age 22. Born Pasadena, Cal.) 1929 B. S., Cal. Inst. Tech. TT 4: P 4.—June 1929 to July 1930 Inspector (Eng.), and July 1930 to date Jun. Engr., U. S. Engr. Dist., Vicksburg, Miss., on levee construction. TT 0.8: SP 0.8.—TT 4.8: SP 0.8: P 4. Refers to W. H. Holland, J. C. H. Lee, W. W. Michael, F. Thomas, I. S. Voorhees.

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(1) EARLE, ROBERT MAYHEW, 137 West Twelfth St., New York City. (Age 24. Born Steelton, Pa.) 1928 C. E., Rens. Pol. Inst. TT 4: P 4.—March—June 1930 Transitman, Long Island R. R., in charge of field work, Ozone Park grade-crossing elimination. TT 0.3: P 0.3.—July 1928—Feb. 1930 and July 1930 to Jan. 1931 with Pennsylvania R. R., successively as Chainman, Rodman, Leveler and Transitman, part of time in charge of surveys, and of concrete inspection and mixes for railroad and highway bridges

over Hackensack River, of concrete and dredging, Jersey City Piers D and F, etc. TT 1.7:

SP 0.6: P 1.1.—TT 6: SP 0.6: P 5.4. Refers to E. G. Adams, T. Earle, P. C. Ricketts,
J. J. Vall.

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(2) ENGSTROM, CLIFFORD GODFRED, Cobble Mt. Camp, Westfield, Mass. (Age 27. Born Hartford, Conn.) 1929 B. S. in Civ. Eng., Worcester Pol. Inst. TT 4: P 4.—June 1929 to date Instrumentman and Inspector, Springfield (Mass.) Water-Works Dept., on surveys, inspection of concrete and hydraulic sluicing. TT 0.8: SP 0.8.—TT 4.8: SP 0.8: P 4. Refers to C. M. Allen, A. W. French, H. H. Hatch, J. W. Howe, A. J. Knight.

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(7) FOX, JOSEPH ALBERT, 1986 Atkinson Ave., Detroit, Mich. (Age 33. Born Chicago, Ill.) 1920 B. S. C. E., Univ. of Detroit.—Jan. 1918 to June 1919 with 23d Engrs., U. S. Army, 3 months in charge of layout of American R. R. yard at Nevers, France, and 6 months Foreman on road construction. TT 0.9: SP 0.7: P 0.2.—Aug. 1920 to date with City Engr.'s office, Detroit, Mich., until July 1922 as Instrumentman on tunnel construction; July 1922 to May 1928 Chf. of field party, in charge of and furnishing engineering services for tunnel construction, west half of city (\$11 000 000) and (July 1924 to July 1926) furnishing field services on practically all branches of municipal work; since May 1928 Res. Engr., Public Structures, in responsible charge, directing continuity and methods of construction, Conners Creek storm water pumping station (\$1 000 000), and reconstruction of Southfield Rd. sewer (\$600 000). TT 9.6: SP 1: P 8.6: RC 2.7.—TT 10.5: SP 1.7: P 8.8: RC 2.7. Refers to P. A. Fellows, M. R. Fisher, W. H. Starkweather, M. F. Wagnitz, F. E. Weber, L. C. Wilcoxen.

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(6) FRICK, WALTER HIRAM, 824 Rebecca Ave., Wilkinsburg, Pa. (Age 34. Born Indiana, Pa.) Registered Prof. Engr., State of Pennsylvania .- Nov. 1915 to May 1916 with Jones & Laughlin Steel Co., Pittsburgh, Pa., about 3 months as Tracer, then Detailer of minor structures. TT 0.3: SP 0.3 -- May to Oct. 1916 on Mexican Border with National Guard of Pennsylvania.-Nov, 1916 to May 1917 and April 1919 to April 1923 with West Penn Power Co., Office of Constr. Engr., Pittsburgh, as Draftsman and on minor design and (2 years) Designer, design of building substructures and superstructures, steel and reinforced concrete and power plant structures. TT 4.2: SP 0.2: P 4: RC 2: D 2. May 1917 to 1919 with U. S. Army, from Aug. to Nov. 1917 as 2d Lieut., Infantry, 79th Div., then 1st Lieut., 314th Infantry, National Army in France; at present Major, Field Artillery, P. N. G., Officers' Reserve Corps. - April to Dec. 1923 Asst. Civ. Engr., Pressed Steel Car Co., McKees Rock, Pa., drafting and minor design on plant operation and maintenance. TT 0.7: P 0.7. - Jan.-Sept. 1924 Structural Engr. with Chas. J. & Chris Rieger, Archts., Pittsburg, in complete charge of structural engineering, covering design, design drawings, checking fabrication details, field and shop inspection, reports, etc., for reinforced concrete, steel and timber structures. TT 0.8: P 0.8: RC 0.8: D 0.8 -- Oct. 1924-Sept. 1928 Structural Engr., with Comes. Perry & McMullen, Archts., on design drawings, specifications, etc., reinforced concrete, steel and timber, also masonry arches and vaulting, being in complete charge of structural engineering. TT 4: P 4: RC 4: D 4 .- Oct. 1928 to date Cons. Structural Engr. (Architectural), designing foundations and superstructures in building operations, reinforced concrete, steel, timber and masonry structures. TT 2.4: P 2.4: RC 2.4: D 2.4.—TT 12.4: SP 0.5: P 11.9: RC 9.2: D 9.2. Refers to M. Brown, W. N. Dambach, F. Kubitz, R. K. McGee, F. L. Metzger, R. M. Riegel, C. L. Wooldridge

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(4) GOODRICH, EDWIN ALFRED, 617 Pardee St., Easton, Pa. (Age 32. Born Binghamton, N. Y.) 1921 C. E., Rens. Pol. Inst. TT 4: P 4.—Aug. 1921 to April 1923 Jun. Asst. Engr., New York State Highway Dept., acting as Rodman and Instrumentman on surveys, Inspector on construction, Draftsman and Computer on estimates and Res. Engr. in charge of contract for construction. TT 1.2: SP 0.6: P 0.6: RC 0.6.—May 1923 to Dec. 1927 with Turner Constr. Co., until March 1924 as Timekeeper, Material Clerk, Job Accountant and Line and Grade Engr. on building construction, then Asst. Cost Engr. on cost reports, Feb. to Nov. 1925 Asst. Supt. on building construction, Nov. 1925 to Jan. 1927 Asst. Estimator preparing estimates from quantity surveys, tabulation and checking subcontract bids, and after Jan. 1927 Cost Engr. in charge of reports on two building construction projects. TT 3.6: SP 1: P 2.6: RC 1.—Feb. 1928 to date Instructor in Civ. Eng., Lafayette Coll., in charge of courses in topographic and railroad surveying. TT 3: P 3: RC 1.—TT 11.8: SP 1.6: P 10.2: RC 2.6. Refers to E. R. Cary, C. T. Fisher, W. S. Lohr, H. C. Paddock, L. Perry, E. H. Rockwell.

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(1) GOSHEN, THEODORE, 195 Academy St., Jersey City, N. J. (Age 26, Born Cincinnati, Ohio.) Aug. 1922 to Jan. 1925 Rodman, Instrumentman and Draftsman with Chas. J. Hosbrook, Cincinnati, Ohio, on surveying and municipal engineering. 1: P 1 .- Feb. 1925 to Nov. 1926 Inspector, Instrumentman and Chf. of Party on bridge and causeway construction, with Harvey Stanley, Cons. Engr., inspecting concrete piles, line and grades on Venetian Way, island development in Biscayne Bay, Miami, Fla. TT 0.9; SP 0.9.—Feb. to Oct. 1927 Instrumentman and Draftsman at Pontiac, Mich., until April 1927 with Eng. Dept., then with Maurice E. Baldwin, on surveys, etc. TT 0.5: SP 0.2: P 0.3 .- Oct. 1927 to Jan. 1928 Instrumentman with H. H. Barnett, Pontiac, on surveys. TT 0.1: SP 0.1.—Feb. to May 1928 Computer and Draftsman with Charlton E. Davis, Ft. Lauderdale, Fla., on survey of Florida East Coast Canal through Palm Beach, Broward and Dade Counties, Fla. TT 0.3; P 0.3.—Sept. 1928 to Aug. 1929 Transitman, United Fruit Co., Guatemala, on topographical surveying and drainage. TT 0.9: P 0.9: RC 0.9.-June to Sept. 1928 and Sept. 1929 to date Asst. Civ. Engr., New Jersey State Highway Dept., being Chf. of Party on surveys and (since Sept. 1929) on viaduct construction Secs. 3, 4, 5 and 6, Route 25, Conn. Link (high-level viaduct, under construction). TT 1.7: P 1.7: RC 1.5 .- TT 5.4: SP 2.2: P 3.2: RC 2.4. Refers to H. R. Gabriel, H. W. Hudson, A. R. Kennedy, G. D. Kennedy, R. S. Moore, J. R. Pollock, G. R. Voorhees.

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(9) GROVER, WILLIAM EDWARD, 2328 Lawrence Ave., Toledo, Ohio. (Age 23. Born Sugar Ridge, Ohio.) 1930 B. C. E., Ohio State Univ. TT 4: P 4. Refers to C. T. Morris, J. C. Prior, J. R. Shank, C. E. Sherman.

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(7) HALL, LESTER GEORGE, 221 Eighth Ave. S. E., Aberdeen, S. Dak. (Age 29. Born in Edmunds County, S. Dak.) 1925 B. S. of C. E., S. Dak State Coll. 1928 M. S. in Mun. and San. Eng., Univ. of Mich. TT 4: P 4.—June 1925—Jan. 1926 Draftsman, Pennsylvania Highway Dept. TT 0.3: SP 0.3.—Feb. 1926 to Sept. 1927 Field Engr. with City Engr., Hobart, Ind., being Chf. of field party. TT 1.5: SP 0.1: P 1.4: RC 1.4.—June 1928 to Sept. 1930 Res. Engr. with Hoad, Decker, Shoecraft & Drury, Cons. Civ. Engrs., Ann Arbor, Mich., supervising construction. TT 1.7: SP 0.5: P 1.2: RC 1.2.—Dec. 1930 to date Civ. Engr., McLaughlin, Noreen & Co., Huron, S. Dak., investigating county highway departments. TT 0.2: P 0.2.—TT 7.8: SP 09: P 6.9: RC 2.6. Refers to A. J. Decker, W. R. Drury, W. C. Hoad, R. L. McNamee, E. C. Shoecraft.

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(12) HALL, OSCAR INGALLS, Jr., 1107 Board of Trade Bldg., Portland, Ore. (Age 29. Born Seattle, Wash.) 1919 to 1924 student, Univ. of Washington. TT 2: P 2.—1924 to date (except about 10 months in 1925 Inspector and Supt., Associated Oil Co., on design and construction of oil-storage plant) with Puget Sound Bridge & Dredging Co., 1 4/5 years as Field Engr. on plant and construction layout for hydraulic sluicing and general construction, and since 1925 Bldg. Supt., Designer and Mgr. of Dept., being responsible for design and construction of San Juan pulp mill, Pacific Coast paper mills, Centralia hydroelectric plant, and various factory and commercial buildings and industrial developments. TT 5.2: SP 1.2: P 4: RC 3.5: D 0.3.—TT 7.2: SP 1.2: P 6: RC 3.5: D 0.3. Refers to N. A. Carle, S. H. Hedges, H. W. McCurdy, W. C. Morse, R. M. Murray, V. C. Suckow, R. H. Thomson.

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(1) HAUSMANN, AUGUST LUDWIG, 54 West Eighty-Ninth St., New York City. (Age 38, Born Essen-Ruhr, Germany.) 1921 Diplom-Ingenieur (C. E.), Polytechnical Univ. of Hanover (Germany). TT 4: P 4 .- 1914 to 1918 Officer, German Eng. Corps, on construction and reconstruction of railroad lines, erection of steel bridges and reconstruction of steel and timber bridges, copper-mine, refining plant and tunnel. TT 4: SP 0.5: P 3.5: RC 1.5: D 1.5 .- 1921 'to 1922 Designer and Detailer, Gebrueder Storp, Essen-Ruhr, Germany, designing and detailing steel work for factory buildings, coal bins and steel bridges. TT 1: P 1: D 1.--1922 to 1925 Designer and Asst. to Chf. Engr., Gutehoffnungshuette (formerly Steffers & Noelle A. G.), Berlin-Essen, Germany, designing, redesigning, checking, making layouts for mill buildings, factories, railway and highway bridges, working out projects for price competitions and supervising Drafting Dept. TT 4: P 4: RC 3: D 4.-1925 to 1926 Asst. to Chf. Engr., August Koenne, Dortmund, Germany, designing, redesigning, checking, estimating industrial buildings, extensions and modernization of coal mines, construction of railway terminal and large assembly halls, working out projects for price competitions. TT 1: P 1: RC 1: D 1.—Jan. to July 1927 Chf. Draftsman, Th. Raschke, Wilhelmshaven, Germany, in full charge of designing and Drafting Dept., supervising steel fabricating shop, factories, highway bridges and aeroplane hangars. TT 0.5: P 0.5: RC 0.5: D 0.5 --- 1927

to 1928 Designer and Checker, Elec: Bond & Share Co., New York City, designing and checking main structures for steel and concrete steam- and hydro-power plant construction. TT 1: P 1: RC 1: D 1.—1928 to 1929 Designer and Checker, The G. A. Just Co., Long Island City, designing, detailing and checking of general steel work for office and apartment buildings and theatres. TT 0.7: P 0.7: RC 0.7: D 0.7.—1929 Designer and Checker, The United States Metal Refining Co., Carteret, N. J., designing and checking construction of new copper refining plant and of an extension. TT 0.5: P 0.5: RC 0.5: D 0.5.—1929 to date Designer and Checker, The American Gas & Elec. Co., New York City, designing and checking of main structures for steel and concrete; steam- and hydro-power plant construction; conveyor work. TT 1.3: P 1.3: RC 1.3: D 1.3.—TT 18: SP 0.5: P 17.5: RC 9.5: D 11.5. Refers to C. I. Colyer, E. W. Madlung, M. A. Rifkinson, G. H. Seybolt, L. Tarnopoll.

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(7) HICKS, RALPH COMSTOCK, 311 Perry St., Albion, Mich. (Age 26. Born Ironwood, Mich.) A. B., Albion (Mich.) Coll. 1927 B. S. E., Univ. of Mich. TT 4: P4.—Summer 1925 Engr.'s Asst., Montreal Min. Co., Hurley, Wis., acting as Rodman and Draftsman.—June 1927 to Jan. 1928 Draftsman, Michigan State Highway Dept., Right-of-Way Office, Lansing, Mich., figuring acreage and writing land descriptions. TT 0.6: P 0.6.—April 1928 to Jan. 1931 City Engr., Albion, Mich., in charge of construction of pavements, sewers, water mains, etc. TT 2.7: P 2.7: RC 2.7.—TT 7.3: P 7.3: RC 2.7. Refers to C. O. Carey, W. C. Hoad, R. E. Horton, C. T. Johnston, H. W. King, H. E. Riggs, R. H. Sherlock, R. S. Swinton, C. O. Wisler.

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(12) HIRTLE, EUGENE GERRERD, 3930 Ashworth Ave., Seattle, Wash. (Age 24. Born Seattle, Wash.) (1930 B. S., Univ. of Wash. TT 4: P 4. 1929 to 1930 (while student) Draftsman and Blueprinter, and (about 4 months) Instructor in Gen. Eng., Univ. of Washington.—TT 4: P 4. Refers to I. L. Collier, C. C. May, J. W. Miller, C. C. More, R. G. Tyler.

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- (1) JACOBS, IRVING, 250 Hudson St., New York City. (Age 43. Born in Russia.) Student, Civ. Eng. Course, Coll. of City of New York (1900 to 1905) and post-graduate course in Civ. Eng., Polytechnic Inst. of Brooklyn (1908 to 1910, evenings). TT 1.5: P 1.5.— April 1905 to June 1906 Rodman and Transitman on surveys and Inspector on construction, Brooklyn Rapid Transit Cor. TT 0.6: SP 0.6.—June 1906 to Jan. 1907 Axeman with Office of Pres., Borough of Richmond, N. Y. TT 0.2: SP 0.2.—Jan. 1907 to May 1917 with Public Service Comm., as Rodman, Draftsman, Jun. Engr., Asst. Engr., drafting, designing and computing alignment of elevated lines, subway structures and inspection sheds, from 1911 to 1913 being Asst. Squad Leader and after June 1913 Acting Designer and Squad Leader on design of subway and elevated structures. TT 9.7: SP 0.9: P 8.8: RC 6: D 9.5.—May 1917 to date with Public Service Comm. and successors, Transit Constr. Commr., Transit Comm. and Board of Transportation, until Jan. 1930 as Designer, being Asst. to Div. Engr., of Designs, preparing reports on rapid transit projects and generally assisting Div. Engr., and since Jan. 1930 Asst. to Chf. Designing Engr., Board of Transportation, preparing independent reports on rapid-transit projects, etc. TT 13.7: P 13.7: RC 13.7: D 13.7.—TT 24.3: SP 1.8: P 22.5: RC 19.7: D 23.2. Refers to C. E. Conover, G. L. Lucas, G. Paaswell, A. I. Raisman, R. Ridgway, J. R. Slattery, H. D. Winsor.
- (1) JONES, CLIFFORD CROWE, 2528 Poplar St., New York City. (Age 25. Born Greenville, S. C.) 1930 B. S. in C. E., Univ. of N. C. TT 4: P 4.—Sept. 1927 to Sept. 1928 (while student) Rodman, Southern Ry.—Feb. to Sept. 1930 Levelman, M. Guthrie & Co., Inc., New York City, on railway location in Peru. TT 0.3: SP 0.3.—TT 4.3: SP 0.3: P 4. Refers to T. F. Hickerson, R. M. Trimble.
- (16) JUSTICE, ROBERT JOSEPH, 1824 Chickasaw St., Topeka, Kans. (Age 32. Born Burlington, Kans.) Sept. 1919 to June 1921, Feb. 1922 to Feb. 1923 and Sept. 1923 to June 1924 student in Civ. Eng., Univ. of Kansas. TT 2: P 2.—May to Sept. 1919 Draftsman, Road Supply & Metal Co., Topeka, Kans., drafting and shop work, laying out structural steel and sheet metal. TT 0.2: SP 0.2.—Feb. to Sept. 1923 Inspector, Shawnee County, Kans., being Mixer Inspector on Federal Aid pavement (9 miles). TT 0.3: SP 0.3.—July 1924 to July 1925 Instrumentman, Jefferson County, Oskaloosa, Kans., setting stakes for road grading and paving, preliminary survey, and in charge of office work on plans for 22 miles of road, bridge inspection. TT 0.5: SP 0.5.—July 1925 to Feb. 1926 Asst. Div. Engr., Div. No. 5, Kansas Highway Comm., Inspecting and supervising. TT 0.6: P 0.6: RC 0.6.—Feb. 1926 to Oct. 1928 with Kansas Highway Comm. and Harvey County, until Oct. 1926 as Res. Engr., then County and Res. Engr., in charge of State and Federal Aid paving and bridges, and

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(after Oct. 1926) also of county road and bridge construction and maintenance, and made road and bridge plans. T7 2.7: P 2.7: RC 2.7: D 1.—April 1929 to date with Kansas Highway Comm., until June 1929 as Materials Inspector, Kansas City Branch, Kansas Materials Testing Laboratory, inspecting shop fabrication of steel bridges, testing cement, sand, rock, etc., and since June 1929 Res. Engr. in direct charge of State and Federal Aid road and bridge construction. TT 1.8: SP 0.1: P 1.7: RC 1.7.—TT 8.1: SP 1.1: P 7: RC 5: D 1. Refers to O. J. Eidmann, F. W. Epps, C. I. Felps, R. D. Finney, R. C. Ham, R. H. Pennartz, L. R. Tillotson, R. B. Wills.

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(5) KELLER, FRANK MARION, 3121 Racine Ave., Norfolk, Va. (Age 28. Born Vienna, Ga.) 1923 B. S. C. E., Univ. of Fla. TT 4: P 4. - June 1920 to July 1921 Chf. of Party with Maurice Ayrer. Ft. Myers. Fla., topographic survey for drainage and survey work for canal construction. TT 0.5: SP 0.5 .- June 1923 to July 1925 Instrumentman, Chf. of Party and Jun. Engr., War Dept., Florence, Ala., on dam and power-house construction. TT 2.1: SP 0.1: P 2 .- July to Sept. 1925 Draftsman, M. of W. Dept., Nickel Plate Road. TT 0.1: P 0.1.—Oct. 1925 to March 1926 in private practice of surveying and engineering, drainage developments, etc., several survey parties. TT 0.4: P 0.4: RC 0.4: D 0.4. April to July 1926 Head of Eng. Dept., Phosphate Mining Co., general mining engineering, surveys, estimates, developments, construction, etc. TT 0.3: P 0.3: RC 0.3. July 1926 to July 1927 Field Engr., City of Clearwater, Fla., in charge of construction, bridges, causeways, sewerage, paving, etc. TT 1: P 1: RC 1.—Aug. 1927 to Aug. 1928 Project Engr.. Florida Road Dept., on construction of bridges, culverts, paving, etc. TT 1: P 1: RC 1 .-Sept. to Dec. 1928 with Mississippi Highway Dept., assisting on road plans for Federal Aid highways. TT 0.3: P 0.3 .- Jan. to Sept. 1929 Engr.-Accountant, Gulf. Mobile & Northern R. R. assisting on valuation reports for Interstate Commerce Comm. TT 0.7: P 0.7. Sept. 1929 to date Asst. Engr., War Dept., Mobile, Ala. and Norfolk, Va., preparing reports on flood, power, navigation, etc., and supervising and (since Oct. 1930) directing work of crew on lock design. TT 1.4: P 1.4: RC 0.4: D 1.4.—TT 11.8: SP 0.6: P 11.2: RC 3.2: D 1.8. Refers to T. A. Forbes, W. T. Howe, G. H. Matthes, G. M. Parker, P. L. Reed, E. J. Tucker.

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(2) LeCOUNT, HOWARD PIERRE, 14 Quincy St., Wollaston, Mass. (Age 33. Born New Rochelle, N. Y.) 1923 C. E., Rens. Pol. Inst. TT 4: P 4.—Sept. 1916 to July 1917 Rodman, Westchester & Bronx Title & Mortgage Co., White Plains, N. Y., on surveys. TT 0.4: SP 0.4.

—Aug. 1917 to April 1919 Private, 102d Regt., U. S. Engrs., 27th Div., A. E. F. TT 0.8: SP 0.8.—Summers 1920 and 1921 Rodman, Bronx River Parkway Comm., Bronxville, N. Y.—Oct. 1923 to Nov. 1925 Draftsman, American Bridge Co., Pencoyd, Pa., on structural steel detailing. TT 1: SP 1.—June to Nov. 1926 Engr., Chesebro-Whitman Co., Inc., Long Island City, N. Y., design and statistical work on scaffolding jobs for buildings. TT 0.4: P 0.4: RC 0.4.—Nov. 1925 to June 1926 and Nov. 1926 to date with New England Power Constr. Co., Worcester and Boston, Mass., as Draftsman, drafting and designing on electric power hydro and substation structures and (since 1929) Asst. Engr., supervising drafting and designing. TT 4.7: SP 0.3: P 4.4: RC 1.4.—TT 11.3: SP 2.5: P 8.8: RC 1.8. Refers to W. M. Bassett, F. A. Davidson, E. A. Dow, A. C. Eaton, P. W. Havenstein, R. L. Monroe, W. W. Rousseau.

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(13) LILLEY, GORDON ARTHUR, 2401 Bowditch St., Berkeley, Cal. (Age 22. Born Los Angeles, Cal.) 1930 B. S. in Civ. Eng., Univ. of Cal. TT 4: P 4.—Dec. 1930 to date Eng. Draftsman, U. S. Forest Service, San Francisco, Cal., on layout of bridge sites, etc. TT 0.1: SP 0.1.—TT 4.1: SP 0.1: P 4. Refers to R. E. Davis, B. A. Etcheverry, F. S. Foote, J. H. Lawrence.

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(2) LYNCH, CONLAW ROBERT, 12 Blackwell Pl., Newport, R. I. (Age 46. Born Columbia, S. C.) 1902 graduated Mechanic Arts School, Boston, Mass.—1902 to 1903 Draftsman with Eugene L. Clarke, Boston, Mass., drawing and tracing. TT 0.5: SP 0.5.—1903 to 1905 Rodman and Transitman, Eng. Dept., Brookline, Mass. TT 1: SP 1.—1905 to 1907 Chf. of Party and Transitman with A. William Sperry, New Haven, Conn., on surveys and plotting, street railway work. TT 2: P 2: RC 2.—Aug. 1907 to Dec. 1908 and July to Nov. 1909 Inspector, U. S. Eng. Dept., New Haven, inspecting dredging, lighthouse foundations, breakwaters, bridge abutments, cable crossings, etc. TT 1.6: P 1.6: RC 1.6: D 0.3.—Dec. 1908 to July 1909 Constr. Engr., Malba Land Development Co., Whitestone, N. Y., giving lines, grades, quantity estimates on cuts and fills, sewers, roads, curbs, sidewalks, etc. TT 0.7: P 0.7: RC 0.7.—Nov. 1909 to June 1910 Asst. Res. Engr., Greenwich (Conn.)

Water Co., constructing dam with core wall of concrete and earth embankments, also concrete gatehouse, spillway, retaining walls, bridge and high-pressure filters. TT 0.6: P 0.6: RC 0.6 .- June 1910 to Sept. 1911 Estimating Engr. with F. S. Blanchard, Everett, Mass., estimating standing timber in South Carolina and Florida. TT 1.2: P 1.2: RC 1.2. 1911 to March 1912 Asst. Engr., Eng. Dept., Malden, Mass., on installation of Maplewood sewer system. TT 0.5: P 0.5: RC 0.5.—March 1912 to Jan. 1916 Div. Engr. with Wolstenholme & Buffington, Engrs., Fall River, Mass., on survey and plans, 16-mile high-tension power line, 1 mile of 16- to 40-duct conduit through Chelsea, Mass., survey and plans of business district, Brockton, Mass., for underground construction, also surveys and plans for various private properties and for cable crossings, Narragansett Bay, Newport to Jamestown, surveys, plans, engineering and construction, underground conduits. Fort Adams and Fort Wetherell, and 32-duct conduit, business district, Newport. TT 3.8: P 3.8: RC 3.8: D 3.8. Jan. 1916 to date in private practice, Newport, R. I., on surveys, plans, estimates and construction for private estates, building houses, stores, garages, ice plant, etc., surveying and building water-works in Tiverton, R. I., including pipe line (12 miles), covered concrete reservoir, 30 driven wells to unit pumping plant; since Jan. 1925 also City Engr., Newport, in responsible charge of engineering and construction, including street lines, grades for curbs, sidewalks and pavements, engineering and supervision of 5 miles of sanitary sewers, 11/4 miles of 24-in. to 36-in. storm sewer, harbor dredging, engineering and construction of 5 miles of reinforced concrete pavements, maintenance of Tax Assessors' records and plans, etc. TT 15: P 15: RC 15: D 15.-TT 26.3: SP 2.1: P 24.2: RC 22.2: D 19.2. Refers to H. K. Barrows, E. H. Brownell, E. W. Crawley, W. H. Lawton, A. Wolstenholme.

(9) MAINEY, JAMES HENRY, 163 Lusard St., Painesville, Ohio. (Age 31. Born Jefferson, Ohio.) March 1917 to May 1918 Rodman to Chf. of level party, F. A. Pease Eng. Co., Cleveland, Ohio, surveying, mapping, etc. TT 0.6: SP 0.6.—May to Aug. 1918 Transitman, Youghougheny & Ohio Coal Co., Barton, Ohio, mining engineering. TT 0.2: SP 0.2 .- Aug. 1918 to March 1929 with C. W. Courtney Eng. Co., Cleveland, as Chf. of Party on subdivision planning, surveying, mapping, layout of factories, theatres, railroad spurs, switches, curvilinear subdivisions, highways, schools, churches, sewers, water mains, pavements, etc., surveys and maps, and Chf. Field Engr. in charge of personnel, interviewing clients, contractors, supervising construction, plans and computation, preparing cost estimates, representing office at Council meetings and in court on surveys, etc. TT 8.2: SP 2.5: P 5.7: RC 4: D 1.7.-March 1929 to date Pres., J. H. Mainey Eng. Co., Civ. Engrs. and Surveyors, Painesville, Ohio, designed and completed two polo fields, including sewers, field drains, changing course of two streams, reinforced concrete retaining walls, headwalls, large pipe culverts, high pressure sprinkling system, concrete pump house, etc.; a reinforced swimming pool, including pipe lines, pump and well; another high-pressure sprinkling system for a polo field; a water system, including reinforced concrete dam, pump house, pipe lines, etc.; surveys, topo-TT 1.9: P 1.9: RC 1: graphical maps, stream-control plant, sewage-treatment plant, etc. D 0.9.—TT 11: SP 3.3: P 7.7: RC 5: D 2.6. Refers to H. E. Cotton, J. J. Lucas, R. F. MacDowell, J. B. Morrison, F. A. Pease.

208 (13) MALTSEFF, MICHAEL NICKOLAS, 131 Hugo St., San Francisco, Cal. (Age 32. Born Tumen, Russia.) 1928 B. S. in C. E., Univ. of Utah. TT 4: P 4.—Oct. 1920 to July 1923 Tech. Agt., Material Dept., Chinese Eastern Ry. Co., on classifying, writing bids and specifications for and purchasing railroad materials. TT 1.8: SP 1: P 0.8: RC 0.5 .-Sept. 1923 to Sept. 1924 Plate Shop Helper, Bethlehem Ship Building Corporation, fabricating structural steel parts for ships. TT 0.5: SP 0.5 .- June 1928 to April 1930 with Mech. Eng. Dept., Utah Copper Co., until Feb. 1929 Draftsman, then Squad Leader in Drafting Room, assisting in directing work and designing furnaces, turbo-generator layouts, powerplant auxiliaries, district steam-heating plants and general steam-power-plant work. TT 1.5: SP 0.4: P 1.1: RC 1.1: D 0.3. May 1930 to date Designer-Draftsman, Western Pipe & Steel Co., San Francisco, Cal., on design and shop detailing of structural steel, pipe lines, steel tanks (pressure and storage), car underframes, bins, pipe (welded, lock bar and riveted) and penstocks. TT 0.6: SP 0.3: P 0.3: D 0.3.—TT 8.3: SP 2.1: P 6.2: RC 1.6: D 0.6. Refers to H. L. Baldwin, S. E. C. Behneman, R. A. Hart, R. B. Ketchum, R. R. Lyman, F. H. Richardson.

(13) MARTIN, ANTONIO RODRIGUEZ, 384 Ward St., San Leandro, Cal. (Age 41. Born San Fernando, Cadiz, Spain.) 1915 Mil. and Civ. Engr., Acad. de Ingenieros, Guadalajara, Spain.—Aug. 1915 to Feb. 1919 Engr., City of Alcazarquiver and in command of military service of engineers; work consisted of bridge over Uadrud River (reinforced concrete pillar and metallic beam), suspension bridge over Lucus River, water and electric supplies,

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hospital, permanent military camp, topographical map of city, sewer system for city and camp, telegraph and telephone system of Alcazarquivar Sector, various roads, etc. TT 3.5: P 3.5: RC 3: D 3.—Feb. 1919 to Jan. 1920 Designer of artillery barracks, Albacete, Spain. TT 1: P 1: D 0.5.—Jan. 1920 to 1929. Designer and in charge of construction, until June 1923 successively of aviation fields, Tetuan and Larache, Africa, and aviation work in Madrid, Cuatro Vientos and Jetafe, and aviation fields, Burgos and Seville, Spain; June 1925 to May 1926 Peralta-Dargie monuments, St. Mary and Mountain View Cemeteries, Oakland, Cal.; May 1926 to March 1928 on design and construction of country house in San Leandro, Cal., including gardening, technical studies, etc. at present Vice-Consulate of Spain. TT 7.5: P 7.5: D 7.—TT 11: P 11: RC 3: D 10. Refers to F. H. Davis, C. E. Grunsky, E. J. Molera, M. M. O'Shaughnessy, O: von Geldern.

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(15) MASON, FAGAN BARB, 1924 Fort Ave., Waco, Tex. (Age 33. Born Flippin, Ark.) 1921 B. C. E., Univ. of Ark. TT 4: P 4.—Sept. 1921 to March 1922 Draftsman, Tarrant County, Tex., on State highway plans. TT 0.2: SP 0.2.—March 1922 to Sept. 1923 Draftsman and Instrumentman, Palopinto County, Tex., on Federal highway preliminaries and construction. TT 0.8: SP 0.8.—Sept. 1923 to March 1924 Designer and Estimator, New Mexico State Highway Dept., on State and Federal highway plans. TT 0.4: P 0.4: D 0.4.—March 1924 to Aug. 1925 Office Engr., Freestone County, Tex., in charge of design and plans for Federal highways. TT 1.4: P 1.4 RC 1.4: D 1.4.—Aug. 1925 to date with Texas State Highway Dept., until May 1927 as Office Engr. in charge of design and plans for State highways (60 miles); May 1927 to March 1928 Asst. Res. Engr. in charge of preliminaries and construction of concrete highways, Federal aid projects, Brooks County, Tex.; March 1928 to July 1930 Res. Engr. in charge of construction of gravel surfacing on State highway projects, Shelby County (6 months), of preliminaries and construction of earthwork and concrete bridges on State highway projects, Starr County (11/4 years) and of surveys and plans for two large bridges over Neches River, Federal Aid projects, Tyler County (6 months); since Aug. 1930 Project Bridge Engr. in charge of construction of large concrete bridges on Federal Aid projects in McLennan County. TT 5.5: P 5.5: RC 5.5: D 1.8.—TT 12.3: SP 1: P 11.3: RC 9: D 3.6. Refers to T. W. Bailey, W. H. Garrett, C. S. Henning, Jr., G. R. Johnston, C. H. Kendall, H. C. Porter, G. G. Wickline.

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(11) MEIER, JUDSON MARSH, P. O. Box 1311, Tucson, Ariz. (Age 26. Born Wisner, Nebr.) 1927 B. S. C. E., Univ. of Nebr. TT 4: P 4.—Jan. to Oct. 1929 Timekeeper with Herbert F. Brown, Gen. Contr., Tucson, Ariz., timekeeping, level and transit work on building construction. TT 0.4: SP 0.4.—Feb. 1930 to date Recorder and Jun. Engr., Water Resources Branch, U. S. Geological Survey, on stream gauging. TT 0.8: SP 0.2: P 0.6.—TT 5.2: SP 0.6: P 4.6. Refers to D. H. Bårber, W. E. Dickinson, J. S. Gatewood, C. E. Mickey.

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(13) MELVIN, RAYMOND STUART, 2232 Ivy Drive, Oakland, Cal. (Age 42. Born Oakland, Cal.) 1906 to 1909 with Western Pacific Ry., successively as Stake Puncher, Leveler, Bridge Inspector and force account. TT 2: SP 2.—1910 Leveler, Southern Pacific Ry. TT 0.5: SP 0.5.—1911 to 1912 Transitman, Oakdale Irrigation Project. TT 2: P 2.—1913 Cons. Engr. on South San Joaquin Irrigation Project for T. K. Beard, Contr., rechecking yardage and material classification. TT 1: P 1.—1916 to 1917 Computer (1 year) and Classification Engr. (1 year), Indian Valley Ry. TT 1.5: SP 0.5: P 1.—1918 to 1919 Transitman (1 year) and Asst. Engr. (1 year), Glenn Colusa Irrigation Project. TT 1.5: SP 0.5: P 1.—1920 to date Asst. Engr., California State R. R. Comm., Hydr. Div. (6 years) and Valuation Div. (5 years). TT 11: P 11: RC 8.—TT 19.5: SP 3.5: P 16: RC 8. Refers to H. S. Allen, H. L. Haehl, W. Hall, P. E. Harroun, H. V. Johnston, H. A. Noble, W. Stava.

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(10) MITCHELL, ADOLPHUS, Sigma Chi House, Chapel Hill, N. C. (Age 24. Born Kinston, N. C.) 1930 B. S. in C. E., Univ. of N. C. TT 4: P 4.—At present graduate student, Univ. of North Carolina.—TT 4: P 4. Refers to T. F. Hickerson, T. Saville.

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(4) MITCHELL, WILLIAM JOHNSTON, 626 Third Ave., Bethlehem, Pa. (Age 40. Born New Bedford, Mass.) 1913 B. S. in Civ. Eng., Univ. of Me. TT 4: P 4.—June 1913 to Feb. 1915 Detailer, American Bridge Co., Brooklyn Plant, on structural steel for subways and office buildings. TT 0.8: SP 0.8.—Feb. to July 1915 Detailer and Designer, Trussed Concrete Co., New York City, on reinforced concrete. TT 0.3: SP 0.1: P 0.2: D 0.2.—July to Oct. 1915 with Felnheimer and Long, Archts., New York City, assisting in design

of railroad structures. TT 0.2: P 0.2.—Oct. 1915 to May 1918 Checker on structural details, until Jan. 1916 with Gunvald Aus Co., New York City, then at Leetsdale plant of Riter Conley Mig. Co., Pittsburgh. TT 2.5: P 2.5.—May 1918 to April 1919 Private 29th Engrs., U. S. Army, in France, taught flash ranging at Army Engr. School at Fort De St. Mange, France. TT 0.9: P 0.9.—April 1919 to Sept. 1922 Designer and Estimator, Berlin (Conn.) Constr. Co., on structural steel, made designs and estimates, took field measurements, laid out work in field and supervised making of details. TT 3.4: P 3.4: RC 1: D 3.—Sept. 1922 to date Designer, Eng. Dept., Bethlehem (Pa.) Mines Corporation, on wood, steel and concrete structures, coal tipples, ore-handling and limestone plants. TT 8.5: P 8.5: RC 2: D 5.—TT 20.6: SP 0.9: P 19.7: RC 3: D 8.2. Refers to C. I. Bausher, C. F. Chase, C. Derrick, G. B. Taylor, E. C. Waite.

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- (1) MONKS, JOHN, Jr., 222 West Fifty-Ninth St., New York City. (Age 26. Born New York City.) 1930 B. A. in Eng., Cambridge Univ., England. TT 4: P 4. Refers to E. D. Buel, J. V. Davies, J. Forgie, J. S. Langthorn, G. E. Tilt.
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 (2) MUNROE, JAMES EDWARD, 130 North Washington St., North Attleboro, Mass. (Age 25. Born North Attleboro, Mass.) 1930 B. S., Brown Univ. TT 4: P 4.—July 1925 to Sept. 1926 with James A. Munroe, Gen. Contr., North Attleboro, Mass., until July 1926 in charge of construction on apartment building (\$35 000) and cottage (\$15 000), then Asst. Supt. on Foxboro high school (\$125 000). TT 0.6: SP 0.6.—June 1930 to date with Munroe & Westcott, Inc., Gen. Contrs., North Attleboro, in charge of construction of Langroch Clothing Bidgs. (\$60 000 and \$15 000) at Providence, R. I., and Andover, Mass. TT 0.5: P 0.5: RC 0.5.—TT 5.1: SP 0.6: P 4.5: RC 0.5. Refers to J. E. Hill, S. Wilmot.
- (8) MURPHY, LAWRENCE PATRICK, U. S. Engr. Office, Peoria, Ill. (Age 28. Born Rendville, Ohio.) 1931 B. S. in Civ. Eng., Univ. of Ill. TT 4: P 4.—May—Aug. 1928 Draftsman and Surveyman, Sept. 1928 to Feb. 1929 Asst. Engr., summer 1929 Surveyman and summer 1930 Senior Draftsman, U. S. Engr. Office, Peoria, Ill., on survey of Illinois River, part of time in charge of party; at present with same office. TT 0.6: SP 0.2: P 0.4: RC 0.4.—TT 4.6: SP 0.2: P 4.4: RC 0.4. Refers to J. J. Doland, W. C. Huntington, G. W. Pickels, W. H. Rayner, F. W. Stubbs, Jr.

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- (3) MURPHY, RAYMOND WILLIS, 5 Teller Ave., Beacon, N. Y. (Age 27. Born Worcester, Mass.) Licensed Prof. Engr. and Land Surveyor, New York State. 1925 B. S. in C. E., and 1927 C. E., N. Y. Univ. Tr 4: P 4.—June to Oct. 1925 Asst. Engr., Grade 1, New York State Highway Dept., being Inspector on concrete road construction. TT 0.1: SP 0.1.—Oct. 1925 to May 1930 with Village of Rye, N. Y., until Nov. 1925 as Asst., being Sidewalk Inspector on construction, etc.; Nov. 1925 to Jan. 1927 Asst. to San. Engr. on sewerage system (\$500 000), in charge of design and construction; Jan. 1927 to Jan. 1930 Highway Engr., in complete charge of surveys, estimates, specifications, plans, construction, cost records, payments, etc., for sewers, drains, sidewalks, concrete, macadam roads (\$1 000 000), and after Jan. 1930 Asst. to Village Engr. on drains, walks, plumbing and building inspection, assessment and development work, surveys, quantity estimates, etc. TT 4.6: SP 0.1: P 4.5: RC 4.5: D 2.1.—May 1930 to date Res. Highway Engr., with H. E. Breed and E. G. Hooper,
- on concrete road construction at Beacon, N. Y. (to cost \$270 000). TT 0.7: P 0.7: RC 0.7: D 0.2.—TT 9.4: SP 0.2: P 9.2: RC 5.2: D 3.3. Refers to J. E. Beswick, H. E. Breed, E. G. Hooper, J. S. Langthorn, G. E. Martin, M. I. Merritt, C. A. Patterson, F. Peiser, C. T. Schwarze, C. H. Snow, C. A. Studwell, B. H. Walt.
- (9) NORTHRUP, DONALD OTTO, 1791 Delmont Ave., East Cleveland, Ohio. (Age 25. Born Herradura, Cuba.) 1927 B. S. in C. E., S. Dak. State School of Mines. TT 4: P 4.—June 1927 to Feb. 1929 Structural Draftsman, American Bridge Co., Gary, Ind. TT 0.8: SP 0.8.—Feb. 1929 to date Asst. Engr., New York Central & St. Louis R. R., on design of concrete and steel highway bridges, retaining walls, etc. TT 2: P 2: D 2.—TT 6.8: SP 0.8: P 6: D 2. Refers to A. Diefendorf, O. E. Hager, L. A. Olson, J. C. Rathbun, G. H. Tinker.
- (1) O'CONNOR, THOMAS JOSEPH, Esmeralda 188, Buenos Aires, Argentina. (Age 28. Born Cloumel, Ireland.) 1923 B. E. (Civil), B. Sc. and Pierce Malone Scholarship in C. E., National Univ. TT 4: P 4.—Oct 1923 to March 1924 Asst. to P. H. McCarthy, Cons. Engr., Dublin, Ireland, quantities, survey and design work on Arklow Water-Supply Scheme, parliamentary plans for reconstruction and improvements to Dundalk Harbor. TT 0.5: SP 0.1: P 0.4: RC 0.2: D 0.1.—March to Aug. 1924 Asst. Engr. on investigations for hydro-electric scheme on River Liffey, Dublin, for Swiss Federal Govt., sur-

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veys, preliminary design and plans, TT 0.5; P 0.5; RC 0.3; D 0.2, Sept. to Dec. 1924 Asst. to E. M. Murphy, Cons. Engr., Dublin, on field investigations, plans, quantities, checking design calculations, etc. for Balbriggan Water-Supply Scheme, TT 0.8: P 0.3: D 0.1. Dec. 1924 to July 1926 Lecturer in Civ. Eng., Queen's Univ., Belfast, in complete charge of Survey Dept., lecturing on sewage purification, etc. supervising design classes, testing cement and road materials. TT 1.6: P 1.6: RC 1.6.—July 1926 to Aug. 1928 Asst. Engr. on Constr., Shannon Power Development, on construction of intake and weir buildings, embankments, precise leveling and survey work. TT 2: P 2: RC 2 .- Oct. 1928 to Aug. 1929 Reinforced Concrete Designer, Civil Constructional Staff. Central Argentine Railway, on design of foundations, masonry piers, two federal bridges. reinforced concrete locomotive running shed, Cordoba, design for reinforced concrete viaduct over River Maldonado and for foundations and piers for bridge in Buenos Aires, masonry and reinforced concrete culverts. TT 0.8: P 0.8: RC 0.8: D 0.8. Aug. 1929 to date Asst. Engr., Greenley Comm. for Investigation of Hydro-Power sites in Argentine (Elec. Bond & Share Co., New York), later Field Supt., Rio Amzacte Power Development, in charge of field operations, surveys, drilling, etc. TT 1.6: P 1.6: RC 1.4 .-- TT 11.3: SP 0.1: P 11.2: RC 6.3: D 1.2. Refers to F. M. Aguirre, L. A. Greenley.

221 (1) OLSON, JOHN ARTHUR. 6 Abbey Road, Darien, Conn. (Age 39. Born Staten Island, N. Y.) 1905 to 1910 Plan Clerk, Cost Clerk and Timekeeper, D. C. Weeks & Son, New York City, on building construction. TT 2.5: SP 2.5 .- 1910 to 1917 and 1919 to 1920 Asst. Supt. and Supt. of Constr., The Whitney Co., New York City, in charge of construction of loft, office, apartment and institutional buildings, private residences, theatres, etc., in New England, New York and Washington, D. C. (total \$6 000 000). also residence in Somerville, N. J. TT 7: SP 1: P 6: RC 3 .- 1917 to 1919 2d Lieut., U. S. Army, being Asst. in charge of construction at temporary aviation fields, 59 buildings, at Wichita Falls and Waco, Tex., and Americus, Ga., also appraisal of Standard Aircraft Corporation Bidgs., Bayview, N. J. TT 2: P 2: RC 0.8 .- 1922 to 1923 in private practice, designing and supervising erection of brick and frame residential buildings at Staten Island, N. Y. TT 1: P 1: RC 1: D 1 .- 1920 to date (except 1 year) with Fred F. French Co.. New York City, until 1922 as Supt. of Constr., and 1923 to 1925 Asst. to Vice-Pres., estimating, purchasing, designing and constructing hotels, office, apartment and institutional buildings and residences in Massachusetts, Connecticut and New York City (\$15 500 000); Jan. 1925 to March 1927 Vice-Pres., and since March 1927 Pres., in charge of constructing, purchasing, estimating, planning and designing apartment houses and hotels (10 to 32 stories), office building (38 stories), club, gymnasium and pool, etc., in New York City and Miami, Fla. (total \$20 000 000, list given in application); since 1929 Pres., Fred F. French Management Co., Inc., and Fred F. French Investing Co., Inc., New York City, having charge of management and renting of buildings and financial operations for new construction. TT 10: P 10: RC 9: RC 7.-TT 22.5: SP 3.5: P 19: RC 13.8: D 8. Refers to A. E. Crane, A. D. Crosett, J. Loewenstein, E. Praeger, G. A. Sherron, A. R. Whitney, S. Wilmot.

222 (1) OVERSTREET, CHESTER ZEARL, 400 East Fifty-Eighth St., New York City. (Age 47 Born Morgantown, Ind.) 1904 to 1905 student, Missouri School of Mines .-- April 1905 to March 1909 successively Rodman, St. Louis & San Francisco R. R. (2 months), Draftsman, Bell Telephone Co., St. Louis, Mo. (2 months), Rodman and Levelman, U. S. Reclamation Service, on Gunnison Tunnel (1 year), Draftsman, Cuba R. R. Co., Camaguey, Cuba (7 months), Transitman, McAdoo Tunnel Engrs., lines and grades, tunnel work (4 months). Draftsman, U. S. Provisional Govt., Manzanillo, Cuba, on highway work (10 months), and Levelman, Beaver Land & Irrigation Co., Canyon City, Colo. (5 months). TT 2: SP 1.5: P 0.5: D 0.5. March to Sept. 1909 Res. Engr., U. S. War Dept., California, on river improvement, Feather River. TT 0.5: P 0.5: RC 0.5. Sept. 1909 to March 1910 Instrumentman, Lehigh Valley R. R., Meshoppen, Pa., on construction, earthwork and structures. TT 0.5: P 0.5: RC 0.5 .- March to Oct. 1910 Chf. of Party, Imperial Irrigation Co., Grand Falls, Tex., surveys and construction. TT 0.5: P 0.5: RC 0.5. - Oct. 1910 to May 1911 Topographer, Public Works, Santo Domingo, on railroad location. TT 0.6: P 0.6: RC 0.6 .- May to Oct. 1911 Draftsman, Hydraulic Properties Co., New York City, on dam design. TT 0.4: P 0.4: D 0.4. -Oct. 1911 to June 1912 Res. Engr. on irrigation-canal construction, San Antonio, Tex., and Feb. 1913 to Sept. 1914 Office Engr. on hydro-electric reports and estimates, Lerida, Spain, for Pearson Eng. Corporation. TT 2.2: P 2.2: RC 2.2 .- June 1912 to Feb. 1913 Office Engr., Insular Commercial Corporation, New York City, on reports and estimates. TT 0.6: P 0.6: RC 0.6. Nov. 1914 to March 1915 Draftsman in New York City, for James H. Fuertes, on water supply and (1 month) for .

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Alexander Potter, on sewage disposal. TT 0.2: SP 0.2. - March to June 1915 Eng. Clerk. Lehigh Valley Coal Co., Wilkesbarre, Pa., on evaluation and title searching, TT 0.1: SP 0.1. -July 1915 to July 1916 Res. Engr., Ruggles Coles Eng. Co., New York City, on construction of twin manganese Ore-washing Mill, Crimora, Va. TT 1: P 1: RC 0.7: D 0.3. July to Oct. 1916 Supt. Constr., T. J. Steen Co., New York City, modern dairy barn, silos, etc. in New York State. TT 0.2: P 0.2: RC 0.2 .- Oct. 1916 to Jan. 1918 Res. Engr. with James H. Fuertes, New York City, on surveys and construction of water supply, Cumberland, Md. TT 1.2: P 1.2: RC 0.9: D 0.3 .- Jan, 1918 to April 1919 1st Lieut., 602d Engrs. U. S. Army, in France, TT 1.3; P 1.3; RC 1.3. June to Dec. 1919 Office Engr., West India Sugar & Finance Co., Santo Domingo, on irrigation work. TT 0.5: P 0.5: D 0.5.-Jan. 1920 to Feb. 1928 Designer and Dist. Mgr., Concrete Steel Co., New York City, on design of reinforced concrete foundations for warehouses, etc., also on saleswork. TT 3: P 3: D 3.-Aug. 1928 to Dec. 1930 Res. Engr., Sao Paulo (Brazil) Tramway Light & Power Co., being Engr. in charge of construction, earthfill dam (1 mile) and concrete structures. TT 2.3: P 2.3: RC 2.3 .-- TT 17.1: SP 1.3: P 15.3: RC 10.3: D 5. Refers to J. F. Curley, C. A. Farwell, J. H. Fuertes, R. H. Gould, J. G. Hollman, O'K. W. Myers, J. A. Sargent.

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(9) PATTON, MARION CECIL, 603 Fourteenth Ave., Middletown, Ohio. (Age 35. Born Kossuth, Miss.) 1925 B. S. C. E., and 1930 C. E., Purdue Univ. TT 4: P 4.to Feb. 1916 and March to Sept. 1919 with F. M. Patton, Jackson, Tenn., as Chf. of Party in responsible charge of survey on river-drainage project (10 000 acres), also Designer and Draftsman and (after March 1919) in responsible charge of survey, design, plans and report on river-drainage project, also expert witness in courts on drainage cases. TT 1: SP 0.5: P 0.5; RC 0.5; D 0.2.—May 1917 to Feb. 1919 with U. S. Army, over 1 year as 1st Lieut., 327th Field Artillery, 84th Div., 5 months overseas as Regimental Reconnaissance Officer .-June 1920 to June 1921 Research Asst., Eng. Experiment Station, Purdue Univ., completed survey of and wrote report on non-bituminous road materials of Indiana. TT 1: P 1 .-June 1921 to May 1922 in private practice with F. M. Patton, being Chf. of party on 30-mile location and final surveys for Federal Aid road work in Tennessee; worked up field notes, laid grade and made complete plans except for drainage structures. TT 0.9: P 0.9: RC 0.9: D 0.5 .- May 1922 to May 1926 with Bureau of Design, Illinois Div. of Highways, as Draftsman, Estimator, Designer and (last 11/2 years) in charge of bid proposals and Contracts Sec. TT 3.9: SP 0.1: P 3.8: RC 2.2: D 0.5 .- May 1926 to date Field Inspection Engr., Office Engr. and Chf. Engr., Armco Culverts Mfrs. Association, research work on durability, soil studies, strength, methods of installation, cost studies, hydraulics, airport drainage, statistical treatment of data, design of drainage structures, etc. TT 4.8: P 4.8: RC 2.6: D 0.2.—TT 15.6: SP 0.6: P 15: RC 6.2: D 1.5. Refers to Q. C. Ayres, R. W. Crum, E. D. Dryfoose, A. H. Hunter, H. W. Rinearson, A. W. Spaulding.

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(10) PORTER, RUFUS CLEMMENS, 313 Poinciana Drive, Homewood, Ala. (Age 47. Born Bangor, Ala.) Jan. to May 1901 Rodman, Yazoo & Mississippi Valley R. R. SP 0.2-May 1901 to Oct. 1903, July 1904 to April 1905 and May to Oct. 1906 with Louisville & Nashville R. R., as Rodman, Chainman, Draftsman, Instrumentman and Masonry Inspector. TT 1.9: SP 1.9 .- Oct. 1903 to July 1904 Asst. Res. Engr., Oneonta & Attalia R. R. TT 0.4: SP 0.4. - April 1905 to May 1906 Draftsman and Instrumentman, Knoxville, La Folette & Jellico R. R., Knoxville, Tenn. TT 0.4: SP 0.4.—Oct. 1906 to June 1907 Asst. Res. Engr., Madisonville Hartford & Eastern R. R., Hartford, Ky. TT 0.7: P 0.7 .- June 1907 to June 1908 engineering and contracting, Cooper & Porter, Hartford. TT 1: P 1: RC 1 .- June 1908 to March 1909 Transitman, U. S. Engr. Corps, on topographical stadia survey, Etowah River, Montgomery (Ala.) Dist. TT 0.5: SP 0.5. -March to May 1909 Res. Engr., Birmingham Southern R. R., Ensley (Ala.) Dist. TT 0.2: P 0.2: RC 0.2.-May 1909 to May 1910 Res. Engr., Central Water Works, Birmingham, Ala., in charge of construction of 15 000 000-gal. concrete reservoir and 5 miles of pipe line (15 to 52 in.) TT 1: P 1: RC 1 .- May 1910 to March 1913 Field Engr., Porto Rico Irrigation Service, Guayama, Porto Rico, in charge of field engineering on construction of Patillias Dam (earth, 1 125 000 m.) TT 2.8: P 2.8: RC 2.8: D 0.3.-March 1915 to Oct. 1919 with Southern R. R., Charlotte Div., on double-track work, Atlanta to Washington, until June 1917 as Transitman and Topographer, then Res. Engr. TT 4.5: P 4.5: RC 1.3: D 1 .- Oct. 1919 to Jan. 1920 Constr. Supt., Gus Ginn, Inc., Gastonia, N. C. TT 0.3: P 0.3: RC 0.3. - Jan 1920 to date with Dixie Constr. Co., later Allied Engrs., Inc., being Res. Engr. and Supt. of Constr. in charge of all railroad lines on construction jobs; work included locating and mapping fifteen cemeterles within Martin dam reservoir, purchasing and surveying new cemeteries, Field Engr. on preliminary investigation of damsites constituting topographical surveys, soundings, river sections, wash borings, diamond drilling, open test and sand and gravel pits, quarry sites, road relocation and changes with estimates, plans and profiles, Chf. of party on transmission-line survey, land lines, Planetable Topographer, maps and profiles, Locating Engr. on railroads, highways and county roads, plans, profiles, estimates and specifications for construction. TT 11.2: P 11.2: RC-11: D 1.1.—TT 25.1: SP 3.4: P 21.7: RC 17.6: D 2.4. Refers to F. Furlow, F. E. Hale, J. E. Parker, A. C. Polk, O. G. Thurlow, E. A. Yates.

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(2) POTTER, GRANT HAMBLETT, 259 Ohio Ave., Providence, R. I. (Age 31. Born Providence, R. I.) 1922 B. S., Rhode Island State Coll. TT 4: P 4.—July 1922 to Aug. 1928 with City of Providence Water-Supply Board, one year as Rodman, one year Concrete Inspector and four years Asst. Engr., last three years being in charge of field construction, investigations, etc. TT 4.6: SP 1.5: P 3.1: RC 2.—Aug. to Dec. 1928 Field Engr. with Fay, Spofford & Thorndike, Boston, Mass., being Inspector on concrete construction. TT 0.4: P 0.4.—May to July 1929 Res. Engr., City Wastes Disposal Co., in charge of construction of sewage-disposal plant. TT 0.2: P 0.2: RC 0.2.—July 1929 to March 1930 Inspector, Connecticut River Development Co., on Fifteen Mile Falls development for New England Power Constr. Co. TT 0.8: P 0.8: RC 0.8.—March 1930 to date Supt. of Constr., Munroe & Westcott, Inc., North Attleboro, Mass., in charge of contract for construction of reinforced concrete reservoir (15 000 000 gal.) for North Jersey Dist. Water Supply Comm. (about \$300 000); at present in main office estimating proposed work, etc. TT 0.9: P 0.9: RC 0.9.—TT 10.9: SP 1.5: P 9.4: RC 3.9. Refers to C. A. Farwell, F. B. Marsh, R. F. Olds, W. W. Peabody, F. E. Winsor.

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- (2) PROCTOR, THOMAS WHITE, 9 Massachusetts Ave., Boston, Mass. (Age 34. Born Boston, Mass.) 1918 A. B., Dartmouth Coll. 1921 B. S., Mass. Inst. Tech. TT 4: P 4.-Aug. 1921 to May 1922 Rodman, Transitman and Draftsman, Maine Central R. R. TT 0.3: SP 0.3 .- May to Dec. 1922 with H. K. Barrows, Cons. Engr., Boston, Mass., as Transitman and Inspector on dam construction. TT 0.4: SP 0.4. Jan. to Aug. 1923 on reinforced concrete detailing for Stone & Webster, Boston, TT 0.5; P 0.5; RC 0.5, Sept. 1923 to March 1925 with Montana Power Co., on construction of hydro-electric plant at Mystic Lake, Mont., as Rodman and Instrumentman, on quantities, estimates and surveys for excavation, pipe-line and power-house construction, stream gauging and designed reinforced concrete hoist-house, and in charge of line and grade work on construction of head works and of layout of electric pole line. TT 1.5: P 1.5: RC 0.3 .- May to Nov. 1925 laboring on railroad and quarry work .- Dec. 1925 to Dec. 1930 with Morton C. Tuttle Co. of Boston, on building construction, until March 1926 as Asst. Engr. on layout work, figuring quantities, etc. for warehouse for Tapioca Co., Orange, Mass.; March to Nov. 1926 Asst. Engr. and (part of time) in charge of line and grade and figuring quantities for Y. M. C. A. Bldg., Scranton, Pa.; Dec. 1926 to July 1929 Job Engr., in charge of layout, line and grade, inspecting steelwork, figuring quantities, etc. for weave shed, clubhouse and mill building for Scranton (Pa.) Lace Co. (1 year), on garage building for Jordan Marsh Co., Cambridge, Mass. (about 5 months), and in charge of all field engineering on mill and plant (\$2 000 000) at Charleston, Mass., and mill (\$2 000 000) at Philadelphia, Pa., for U. S. Gypsum Co. (1 1/10 years); July to Dec. 1929 Supt. in charge of mill (\$150 000) for M. J. Whittall Associates. Worcester. Mass.; after Dec. 1929 in charge of layout and field engineering for paper mill (\$10 000 000) for Maine Seaboard Paper Co., Bucksport, Me. TT 5: P 5: RC 3.9 .- TT 11.7: SP 0.7: P 11: RC 4.3: D 0.5. Refers to H. K. Barrows, J. E. Bell, A. A. Northrop, F. Scotten, C. M. Spofford.
- (2) PROUD, ERNEST LEROY, 337 Commonwealth Ave., Boston, Mass. (Age 26. Born Beverly, Mass.) Feb. to Nov. 1923 Draftsman and Structural Steel Detailer, New England Structural Co., Everett, Mass. TT 0.4: SP 0.4.—Jan. 1924 to March 1927 Rodman, Transitman and Draftsman, Boston & Maine R. R., Salem, Mass. TT 1.2: SP 1: P 0.2.—March 1927 to Sept. 1929 Transitman, Draftsman and Inspector, South Essex Sewerage Dist., Salem. TT 2.5: P 2.5.—Sept. 1929 to date Draftsman, Metropolitan Dist. Water Supply Comm., Boston. TT 1.5: P 1.5.—TT 5.6: SP 1.4: D 4.2. Refers to C. L. Coburn, C. R. Day, S. M. Dore, K. R. Kennison, C. C. McCully, B. F. Snow, F. E. Winsor.

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(9) RIDEOUT, FRANK DUDLEY, 1450 Rockefeller Bldg., Cleveland, Ohio. (Age 51. Born Toledo, Ohio.) 1902 B. S., Purdue Univ. TT 4: P 4.—June 1902 to date with American Bridge Co., until Feb. 1911 as Asst. Engr. at Pittsburgh, Pa., in charge of design and erection, erection tools equipment and erection estimates, then Contr. Mgr., 9 years at Buffalo, N. Y.,

handling contracts, contacting with architects, engineers and general contractors, in western New York and northwestern Pennsylvania, and since Feb. 1920 at Cleveland, Ohio, covering territory, including Buffalo territory and northern half of Ohio; has handled practically all Cleveland Union Terminals Co.'s work, including buildings and bridges, Goodyear-Zeppelin Airship factory and dock at Akron, Ohio, Lakefront Stadium for City of Cleveland, various bridges, buildings, etc. Tr 19: SP 10: P 9: RC 9: D 9.—Tr 23: SP 10: P 13: RC 9: D 9. Refers to R. Hoffmann, E. P. Lupfer, P. J. Reich, A. F. Reichmann, G. B. Sowers, J. E. Wadsworth, W. J. Watson.

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(1) RIPLEY, MILLS NORTON, 1230 Park Ave., New York City. (Age 27. Born Marietta, Ohio.) 1926 C. E., Cornell Univ. TT 4: P 4.—June 1923 to Feb. 1924 with survey party, over 3 months in charge, New York State, Dept. of Highways. TT 0.3: SP 0.3.—June 1925 to June 1926 (while student) Instructor in Civ. Eng., Cornell Univ.—June 1926 to June 1928 Special Agt., Yard Clerk and Yardmaster, Operating Dept., Erie R. R. TT 1: SP 1.—June 1928 to date with Fairchild Aerial Surveys, New York City, in charge of various aerial surveys and (past 2 years) also investigated new methods and products. TT 2.7: P 2.7: RC 1: D 1.—TT 8: SP 1.3: P 6.7: RC 1: D 1. Refers to F. A. Barnes, T. L. Collum, E. R. Polley, T. M. Ripley, J. A. L. Waddell.

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(1) SALLANS, GEORGE ANDREW, 3533 Eightieth St., Jackson Heights, N. Y. (Age 47. Born Greenwich, N. Y.) 1904 C. E., Rens. Pol. Inst. TT 4: P 4.—July 1904 to Oct. 1910. Oct. 1912 to June 1916, and June 1918 to June 1922 with American Bridge Co., until Oct. 1910 as Structural Detailer, Checker and Estimator at Berlin, Conn., Brooklyn and New York offices; Oct. 1912 to June 1916 designing structural steelwork for buildings, New York: June 1918 to Nov. 1919 Special Representative at Washington, D. C., cooperating with War and Navy Depts. in requirements for steel structures; after Nov. 1919 Designer of steel highway bridges and viaducts, New York. TT 13.5: SP 0.4: P 13.1: RC 5: D 4.2. Oct. 1910 to Oct. 1912 with New York, New Haven & Hartford R. R., in charge of design of special steel catenary bridges for electrification of New York, Westchester & Boston Ry. TT 2: P 2: RC 2: D 2 .- June 1916 to June 1918 with John E. Greenawalt, Metallurgist, New York, in charge of structural design of sintering plants. TT 2: P 2: RC 2: D 2. - June 1922 to June 1925 with George B. Post & Sons, Archts., New York, in charge (under Chf. Engr.) of structural design, assisted in design of Statler Hotels in Buffalo and Boston and had charge of Roosevelt hotel, New York, and Cleveland (Ohio) Trust Co. Bldg. TT 3: P 3: RC 2.6: D 3.-June 1925 to date with H. G. Balcom, Cons. Engr., New York City, in charge of structural steel and foundation designs for new buildings, alterations, etc., including Brooklyn Telephone Bldg. (27 stories), Half Moon Hotel, Coney Island, N. Y. (18 stories), and Savoy Plaza Hotel, New York City (30 stories), Home Savings Bank, Albany, N. Y. (20 stories), alterations on National Bank & Trust Co., Hartford, Conn., Seventh Ave. Approach, Macombs Dam bridge, New York, and Stone & Webster Office Bldg., New York City (54 stories), etc. TT 5.6: P 5.6: RC 5.6: D 5.6.-TT 30.1: SP 0.4: P 29.7: RC 17. 2: D 16. 8. Refers to R. A. Backus, H. G. Balcom, A. L. Davis, A. L. Kehoe, G. V. Salle, W. J. Thomas, J. E. Wadsworth.

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(11) SCOTT, DONALD COZINE, 606 Ellis Bldg., Phoenix, Ariz. (Age 31. Born St. Joseph, Mo.) Student in Mech. and Civ. Eng., California Inst. of Technology (1 year) and Univ. of Arizona (2 years). TT 1.5: P 1.5.—May to Nov. 1918 Draftsman and Transitman, American Smelting & Refining Co., on construction. TT 0.8: SP 0.8.— May 1923 to Jan. 1924 Mech. Draftsman, and Jan. 1924 to Dec. 1926 Asst. Div. Engr., on location, design and construction, Arizona Eastern R. R. Co. TT 2.7: P 2.7: RC 1.4: D 0.8.—Dec. 1926 to date Cons. Engr.; during 1927 had charge of redesign and gunite lining of canal system of Roosevelt Water Conservation Dist. (\$350 000); 1928 on preliminary survey, report and investigation of district for Harquahala Irrigation & Power Co.; 1929 and 1930 on investigation and reports and designed three small dams for irrigation system of Hidden Valley Land Co.; at present with Randolph Irrigation Dist., on development of 9000 acres, also completing sanitary sewer system, paving and lighting for Town of Florence (\$150 000); has completed sewer system (\$16 500), water system, including dam, reservoir, pumps and distribution system (\$97 700), underground power and telephone system (\$55 100), roadwork, etc. (\$14 500) for Arizona Biltmore Corporation; is writing reports and making investigation for Pinal County Elec. Dist. No. 4 (108 000 acres), etc. TT 5: P 5: RC 5: D 5.—TT 9.5: SP 0.3: P 9.2: RC 6.4: D 5.8. Refers to C. C. Cragin, J. B. Girand, P. J. Lynch, E. V. Miller, F. J. O'Hara, J. W. Powers.

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(i) SHIH, KONG HUAI, 356 West Thirty-Fourth St., New York City. (Age 30. Born Haimen, China.) 1921 B. S. in C. E., Nanyang Univ., Shanghai, China. 1930 M. C. E., Cornell Univ. TT 4: P 4.—July 1921 to June 1927 with Nanyang Univ., Shanghai, China, until June 1926 as Instructor in engineering material testing, then Researcher and Instructor, experimental researches, investigating and testing Chinese engineering materials. TT 5.7: SP 0.3: P 5.4: RC 1.—July 1927 to Aug. 1929 Asst. Engr., The Municipality of Greater Shanghai, China, planning and directing investigation of industrial districts for new city planning and (after Sept. 1928) in charge of surveying division in planning and directing survey of city and suburbs and location of roads. TT 2.2: P 2.2: RC 2.2.—Autumn 1929 to Feb. 1931 graduate student, Cornell Univ. TT 11.9: SP 0.3: P 11.6: RC 3.2. Refers to F. A. Barnes, H. H. Ling, J. E. Perry, E. W. Schoder, F. J. Seery.

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(1) SIEGLER, GEORGE, 26 Journal Sq., Jersey City, N. J. (Age 35. Born New York City.) Licensed Structural Engr., State of New Jersey. 1917 M. E., Stevens Inst. Tech. TT 4: P 4 .- 1917 to 1918 with Machine Shop and Production Dept., Babcock Wilcox Co., Bayonne, N. J. (6 months) and with Purchasing Dept., J. G. White Eng. Corporation, New York City (6 months). TT 1: P 1.-1918 to 1920 with U. S. Signal Corps (about 4 months). A. S. A. P. (over 9 months) and U. S. Civil Service (about 4 months). TT 1.2: SP 0.1: P 1.1; RC 1.1 .- 1920 to 1925 Designer of reinforced concrete and steel for architects, and private building work, including special footing design for garage (140 by 200 ft.) on quick sand and dry clay and sand, one foundation serving as retaining wall (12 ft. high). TT 5: P 5: RC 5: D 5.-1925 to 1926 Estimator and Designer (Structural) for James Mitchel, Inc., Bldg. Contrs., Jersey City, N. J., also Engr. on reinforced concrete building (6 stories and basement), Jersey City, built for Manhattan Elec. Supply Co. TT 0.9: P 0.9: RC 0.5 .- 1925 to date Pres. and Gen. Mgr., Geo. Siegler Co., Engrs. and Contrs., Jersey City, on general construction and design of industrial buildings, including at present alterations and addition to Bayonne Public Library (\$223 750), and fire-engine house (2 stories and basement). alterations to F. & W. Grand Store (approx. \$53 000), Jersey City, etc.; work has also included Service Bldg. for Holland Tunnel, Jersey City, design and construction of scissor factory, garages, etc. TT 5.2: P 5.2: RC 5.2: D 5.2. TT 17.3: SP 0.1: P 17.2: RC 11.8: D 10.2. Refers to C. S. Gleim, J. H. Henderson, F. J. Radigan, O. Singstad, E. J. Spoerer.

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(1) SIMONE, JOHN MAYOR, P. O. Box 794, White Plains, N. Y. (Age 30. Born Rotterdam, N. Y.). Sept. 1920 to June 1921 Student, Special Course in Eng., Union Coll., Schenectady, N. Y.—June 1919 to July 1920 Asst. to Civ. Engr., American Locomotive Co., Schenectady, acting as Rodman, Chainman and Inspector and keeping cost records on building construction. TT 0.5: SP 0.5 .- June 1921 to Oct. 1922 with Conservation Comm., Albany, N. Y., as Surveyman running lot and township lines in Adirondack Mountains, acting as Rodman, Chainman, Axeman and Timber Cruiser. TT 0.7: SP 0.7 .-Dec. 1922 to May 1923 Asst. to his father, C. Simone, Schenectady, directing building and road construction. TT 0.5: P 0.5.—May to Oct. 1923 Transitman, Adirondack Light & Power Corporation, Schenectady, on transmission lines and power-plant layouts. TT 0.2: SP 0.2 .- Oct. 1923 to Sept. 1925 Field Engr. or Party Chf., Bronx Parkway Comm., Bronxville, N. Y., on road and bridge layouts, preliminary surveys and supervising construction of bridges. TT 1.8: P 1.8: RC 1.8.—Sept. to Oct. 1925 Chf. of Party, Pennsylvania Dept. of Highways, Pittsburgh, Pa., on preliminary road surveys. TT 0.1: P 0.1: RC 0.1.-Oct. 1925 to May 1926 and Feb. to Nov. 1928 Asst. Engr., Westchester County Park Comm., Bronxville, N. Y., on layout and supervision of construction of bridges, estimating, surveys, etc. TT 1.3: P 1.3: RC 1.3. -- May 1926 to Feb. 1928 and Nov. 1928 to Sept. 1930 Engr.-Supt., Garofano Constr. Co., Mt. Vernon, N. Y., in charge of bridge, road, industrial building construction, designing timber structures and estimating. TT 1.8: P 1.8: RC 1.8.—Nov. 1928 to Sept. 1930 Engr.-Supt., Barford Constr. Co., Valhalla and Peekskill, N. Y., in charge of construction of roads and bridges, designing timber structures, estimating, etc. TT 1.8: P 1.8: RC 1.8.—TT 8.7: SP 1.4: P 7.3: RC 6.8.—Refers to H. P. Barnes, J. Barnett, R. W. Briggs, C. A. Garfield, A. G. Hayden, L. G. Holleran, S. Rosenberg.

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(5) SKELTON, RAY HAMILTON, Box 176, Hyattsville, Md. (Age 42. Born Brooklyn, N. Y.) 1909 Ph. B., and 1912 C. E., Sheffield Sci. School. TT 4: P 4.—Aug. to Dec. 1909 Time-keeper and Cost Analysis Clerk, Ferro Concrete Contr. Co., on reinforced concrete retaining wall. TT 0.2: SP 0.2.—Dec. 1909 to Sept. 1911 Draftsman and Instrumentman, Worcester Salt Co., Sliver Springs, N. Y., on construction and maintenance of plant. TT 0.8: SP 0.8.—

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Oct. 1911 to June 1912 graduate work and Asst. Instructor, Sheffield Scientific School. descriptive geometry and mechanical drawing .- July 1912 to July 1913 Draftsman and Checker, Westinghouse, Church, Kerr & Co., New York City. TT 0.8; SP 0.3; P 0.5; -July to Oct. 1913 Computer, Bridge Dept., J. G. White Eng. Corporation, New York City, on valuation survey, Atlantic Coast Line. TT 0.1: SP 0.1.—Oct. 1913 to June 1917 Instructor in Civ. Eng., and Oct. 1920 to June 1921 Instructor in Eng. Mechanics, Sheffield Scientific School, New Haven, Conn. TT 4.5: P 4.5.—June 1917 to June 1920 Prof. of Civ. Eng., Pei Yang Univ., Tientsin, China. TT 3: P 3: RC 3 .- June to Oct. 1921 Special Draftsman, Education Div., Bureau of Public Roads, in charge of road models. TT 0.1: SP 0.1. Oct. 1921 to Oct. 1925 Asst. Prof. of Surveying and Eng., Allegheny Coll., Meadville, Pa., also in private practice, surveying and bridge maintenance for Nenango County, Pa. TT 4: P 4: RC 4. Oct. 1925 to Oct. 1930 Asst. Prof., and Oct. 1930 to date Associate Prof., Univ. of Maryland, College Park, Md. TT 5.4: P 5.4: RC 5.4.-TT 22.9: SP 1.5: P 21.4: RC 12.4: D 0.5. Refers to T. K. A. Hendrick, A. N. Johnson, P. G. Laurson, J. Ripley, C. J. Tilden, J. C. Tracy, J. R. West.

(9) SLATER, HAROLD HERBERT, 17 Sixteenth Ave., Columbus, Ohio. (Age 22. Born Jeromeville, Ohio.) 1930 B. C. E., Ohio State Univ. TT 4: P 4. Refers to E. F. Coddington, J. M. Montz, C. T. Morris, J. C. Prior, J. R. Shank, C. E. Sherman, R. C. Sloane.

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(6) SPENCER, CHARLES BRENNARD, 4929 Forbes St., Pittsburgh, Pa. (Age 23. Born Des Arc, Ark.) 1930 B. E. in Civ. Eng., Tulane Univ. of La. TT 4: P 4.—June 1930 to date Topographical Draftsman, U. S. Dist. Engr.'s Office, Pittsburgh, Pa. TT 0.3: SP 0.3.— TT 4.8: SP 0.3: P 4. Refers to N. W. Bowden, D. Derickson.

(3) STOUT, GEORGE EDWARD, Averill Park, N. Y. (Age 28. Born Averill Park, N. Y.) 1925 C. E., Rens. Pol. Inst. TT 4: P 4. - Summer 1924 and June 1925 to date with Hudson River Regulating Dist., Albany, N. Y., first as Rodman and Chainman, and since June 1925 successively Jun. Asst. Engr., Jun. Engr., Asst. Engr., in charge of surveying properties, mapping and assisting on highway construction, and in charge of line and grade and estimates for dam construction.—TT 5.3: SP 0.3: P 5.—TT 9.3: SP 0.3: P 9. Refers to E. R. Cary, C. C. Chambers, L. W. Clark, P. C. Ricketts, W. W. Rousseau, E. H. Sargent.

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(1) TAMBURRI, THOMAS, 226 South Sixth St., Newark, N. J. (Age 24. Born Castelpetroso, Campobasso, Italy.) 1930 B. S. in C. E., Rutgers Univ. TT 4: P 4 .- Summers 1927 and 1928 Helper, Testing Dept., Public Service Elec. & Gas Co. of New Jersey, testing instruments, taking readings and plotting.—Summer 1929 Asst. Fireman, Durant Motor Co., Elizabeth.-July 1930 to date Transitman with County Engr. Essex County, N. J., assisting on surveys, level and transit work, plotting field notes, assisting on plans, etc. TT 0.5: P 0.5.-TT 4.5: P 4.5. Refers to H. N. Lendall, E. H. Rockwell.

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(3) TAPPAN, KIRBY HEWITT, Kenogami, Que., Canada. (Age 27. Born Potsdam, N. Y.) 1925 B. S. E., Princeton School of Eng. TT 4 P 4 .- Sept. 1925-March 1926 Chf. of topography party, Quebec Development Co., on preliminary survey for hydro-electric development at Chute A Caron, Quebec. TT 0.3: SP 0.3 .- Sept. 1926-Dec. 1927 with Duke Price Power Co., Ltd., in charge of survey party, reservoir storage and flooding damage, also of construction of sewage system and of investigations (churn boring of 100 ft.) for water supply of small district. TT 1.3: P 1.3: RC 0.2 .- Nov. 1928-March 1929 with C. O. Tappan, Cons. Engr., New York City. TT 0.3: P 0.3 .- Jan.-Oct. 1928 and March 1929 to date with Alcoa Power Co., Ltd., Kenogami, Que., as Chf. of party on construction layout, concrete dam, railroads and excavation, also (since March 1929) transmission line and reservoir survey. TT 2.8: P 2.8: RC 2.8. -TT 8.7: SP 0.3: P 8.4: RC 3. Refers to G. L. Albert, F. H. Cothran, C. P. Dunn, D. F. Noyes, J. W. Rickey, R. White.

(4) TAYLOR, WILLIAM CHARLES, Jr., 530 Riverview Road, Swarthmore, Pa. (Age 23. Born Wayne, Pa.) 1930 B. S. in Civ. Eng., Pa. State Coll. TT 4: P 4.-July to Sept. 1930 Draftsman with Damon & Foster, Civ. and Cons. Engrs., Sharon Hill, Pa., on pipe-line survey for Sun Oil Co. TT 0.1: SP 0.1 .- Nov.-Dec. 1930 Draftsman, Mack Machine Co. of Pa., Inc., Philadelphia, Pa., on piping layout, detailing coils, etc., for refrigeration installation. TT 0.1: SP 0.1 .- TT 4.2: SP 0.2: P 4. Refers to N. Foster, E. D. Walker.

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- (2) THIBODEAU, GEORGE FREDERICK, 45 Waterman Ave., Eden Park, R. I. (Age 33. Born Claremont, N. H.) 1923 Ph.B., Brown Univ. TT 2 P 2 .--July to Oct. 1918 Office Draftsman, Bethlehem Steel Corporation, Fore River Shipyard. TT 0.1: SP 0.1 .-1918 to March 1919 Student in Eng., U. S. Army Corps, Colgate Univ .-- April to Sept. 1919 Rodman and Instrumentman, New Hampshire Highway Dept., TT 0.2: SP 0.2.-March 1920 to June 1923 (while student) and June 1923 to March 1926 with Rhode Island State Board of Public Roads, as Draftsman, Instrumentman, Inspector and (after June 1923) Res. Engr. in responsible charge of construction of macadam and concrete roads (71/2 miles, about \$155 000) in Cumberland, East Providence and Tiverton. TT 2.8: P 2.8: RC 2.7: D 1.-March 1926 to May 1927 Gen. Supt. of Constr., New Haven Road Constr. Co., Road Bldrs., in responsible charge of construction of macadam roads (111/2 miles, about \$434 000) in Monson and Bernardston, Mass., and Howington, Conn. TT 1.2: P 1.2: RC 1.2: D 0.5.—May 1927 to date Pres., Hagan-Thibodeau Constr. Co., Eden Park, R. I., in responsible charge of construction of gravel and macadam roads (over 30 miles, about \$847 000) in Rhode Island, New Hampshire and Massachusetts; two reinforced concrete bridges (\$11 000) at Tiverton, R. I., and one (\$7 000) at Medway, Mass., etc. TT 3.8: P 3.8: RC 3.8: D 0.5.—TT 10.1: SP 0.3: P 9.8: RC 7.8: D 2. Refers to F. E. Everett, G. H. Henderson, J. L. Murray, I. W. Patterson, S. Wilmot.
- (1) TRICE, ALLISON CARVER, Care, Gen. Delivery, New York City. (Age 25. Born Nashville, Tenn.) 1930 B. E., Vanderbilt Univ. TT 4: P 4.—June to Dec. 1930 Concrete Inspector, Corps of Engrs., U. S. Army, Nashville, Tenn., in charge of keeping records on tests, designing mixes, etc. TT 0.5: P 0.5: RC 0.5: D 0.3.—TT 4.5: P 4.5: RC 0.5: D 0.3. Refers to J. B. Brown, W. A. Coolidge, F. J. Lewis, W. H. Schuerman.

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- (7) UBBINK, WILLIAM JOHN, 740 Grand Ave., Port Washington, Wis. (Age 40. Born Port Washington, Wis.) 1906 to 1908 student Rheude Architectural and Eng. Coll., Milwaukee, Wis., and (later) Chicago Technical Coll.—Sept. 1909 to Jan. 1914 with his father, Jos. Ubbink, Gen. Contr., on building, marine and foundation work, docks, breakwaters, etc., being Designing Engr. and in charge of construction. TT 3.6: SP 0.8: P 2.8: D 0.5.—Jan. 1914 to Nov. 1917 and July 1919 to Jan. 1921 member of firm, Jos. Ubbink & Sons, as Engr. and Gen. Mgr. on concrete roads and bridge construction in Wisconsin, etc. TT 3.3: SP 1.1: P 2.2: RC 2.2: D 1.2.—Nov. 1917 to July 1919 with 42d Engrs., U. S. Army, on road and bridge work, 1½ years in France. TT 0.9: SP 0.9.—Jan. 1921 to date County Highway Commr., Ozaukee County, Wis. TT 7.5: SP 2.5: P 5: RC 5.1: D 1.7.—TT 15.1: SP 5.5: P 9.6: RC 9.6: D 3.4. Refers to W. F. Cavanaugh, G. F. Daggett, J. Donohue, A. R. Hirst, H. J. Kuelling, O. C. Rollman, C. R. Weymouth.
- (11) WAILES, CHARLES DEVENPORT, Jr., 214 Santa Fe Ave., Long Beach, Cal. (Age 29. Born Memphis, Tenn.) 1922 B. S. in Civ. Eng., and 1930 C. E., Tri-State Coll., Angola, Ind.—Sept. 1922 to Jan. 1926 Structural Engr. with Gardner & Howe, Memphis, Tenn., on design, details and supervision of buildings and structures. TT 3.2: SP 0.2: P 3: RC 2: D 2.—Feb. 1926 to date with Bldg. Dept., Long Beach, Cal., until Oct. 1927 as Chf. Structural Engr., checking plans of buildings and structures, field inspection and structural design of buildings, and since Oct. 1927 Chf. of Dept., controlling checking of plans, issuing permits, and supervising construction and occupancy of structures. TT 5: P 5: RC 5: D 5.—TT 8.2: SP 0.2: P 8: RC 7: D 7. Refers to A. H. Adams, C. M. Cram, H. N. Howe, J. E. Mackie, D. H. Merrill, H. Paterson, R. D. Van Alstine.
- (3) WALDBILLIG, GERALD WILLIAM, 400 Second St., Albany, N. Y. (Age 25. Born Albany, N. Y.) 1925 C. E., Rens. Pol. Inst. TT 4: P 4.—Sept. 1925 to April 1926 Jun. Engr. with Horton, Barrows and Middlebrook, Cons. Engrs., in charge of design and construction of Estes-Reinbow hydro-electric development, Ausable River, inspection, lines, grades, reports and computation of quantities. TT 0.3: SP 0.3.—April 1926 to April 1928 Asst. to C. T. Middlebrook, Cons. Engr., Albany, N. Y., field and office, design of foundations and steel for Berkshire Life Insurance Bldg., Pittsfield, Mass., and of proposed Green River hydro-electric at Garfield, Vt., investigating flood conditions in New England, on redesign of water-supply system at White Hall, N. Y., design of proposed hydro-electric development, Farmington River, Conn., and of hydro-electric development, Middlebury River at Ripton, Vt. TT 1.5: SP 0.5: P 1: D 0.5.—April to Sept. 1928 Engr. for Duplex Constr. Co., in charge of construction of Bolton Landing School (\$250 000) and foundations of Ticonderoga, N. Y. School (\$400 000). TT 0.4: P 0.4: RC 0.4.—Sept. 1928 to Feb. 1929 Engr. in Chg. (under Supt.), Wells Bros., Chicago, Ill.,

on construction of Montgomery Ward Bldg., Albany, N. Y. TT 0.5: P 0.5: RC 0.5.—Feb. 1929 to Feb. 1931 Vice-Pres, and Gen. Mgr., and at present Pres., John B. Waldbillig, Inc., Gen. Bldg. Contrs., Albany. TT 2: P 2: RC 2.—TT 8.7: SP 0.8: P 7.9: RC 2.9: D 0.5. Refers to A. G. Chapman, J. Dyer, R. G. Finch, R. S. Holmgren, C. T. Middlebrook, E. H. Sargent.

247 (12) WALLER, HAROLD HENKLE, 817 Alaska Bldg., Seattle, Wash. (Age 41. Born Stransburg, Nebr.) 1918 B. S. in C. E., Univ. of Wash. TT 4: P 4.—Summers 1909-1911 Chainman, Transitman and Computer with U. S. Mineral Surveyor for Alaska, and March to Oct. 1912 and at present U. S. Mineral and Deputy Surveyor for Alaska, surveyed numerous mining claims, etc. TT 0.7: P 0.7: RC 0.7: D 0.7. May to Oct. 1913 Chf. Engr., Skolai Min. Co. of Akron, Ohio, and North American Trading & Transportation Co. of Dawson, Y. T., in charge of field work on Alaska mining properties. TT 0.5: P 0.5: RC 0.5: D 0.5. 1914 to date (except 1918 to 1919 1st Lieut., 49th Coast Artillery Corps, U. S. Army, being Orientation Officer in France in charge of surveying fire control) member of firm, Hubbell & Waller, Civ. Engrs. and Contrs., and (after Jan. 1931) Hubbell & Waller Eng. Corporation, surveying, mapping, designing and contracting hydro-electric plants, pipe and transmission lines, power houses, etc., mining engineering, underground surveying, reconnaissance and location of salmon cannery plants, designs of wharves and warehouses for canneries and mining companies, including design and construction of hydro-electric plants for Columbia River Packers Association, Chignik, Alaska (\$33 000) (1921), Town of Petersburg, Alaska (\$115 000) (1925) and Town of Metlakatla, Alaska (\$33 500) (1927); since Jan. 1931 Vice-Pres. and Treas. of Corporation. TT 15: P 15: RC 15: D 15.—TT 20.2: P 20.2: RC 16.2: D 16.2. Refers to A. C. Baldwin, A. J. Ela, D. H. Evans, F. H. Hardy, R. W. Lincoln, C. C. More, C. D. Pollock, J. B. Warrack. 248

(11) WARD, PHILIP HENRY, 3675 South Hoover St., Los Angeles, Cal. (Age 25. Born Cranford, N. J.) 1931 B. S. in C. E., Univ. of Southern Cal. TT 4: P 4. Refers to R. M. Fox, D. M. Wilson.

(13) WHITEHEAD, RICHARD STANLEY, 233 Grand Boulevard, San Mateo, Cal. (Age 23. Born Cambridge, Mass.) 1930 B. S. and M. S., Mass. Inst. Tech. TT 4: P 4. 1923 to 1931 (vacations and spare time) Asst. to G. Stanley Whitehead, Civ. Engr., acting as Rodman, Chainman and Transitman. TT 4: P 4. Refers to T. R. Camp, C. M. Spofford, C. H. Sutherland.

250 (16) WHITFIELD, VOELIAN WINTON, 609 New England Bldg., Kansas City, Mo. (Age Born San Luis Potosi, Mexico.) 1917 B. S. in C. E., Rice Inst. TT 4: P 4.-Aug. to Sept. 1917 Instrumentman with Black & Veatch, Camp Doniphan, Okla., staking out work. TT 0.1: SP 0.1 .- 1917 to 1919 with 315th Engrs., 90th Div., U. S. Army, as 1st Sergeant, Co. B, and Headquarters Co. TT 0.9: SP 0.9 .- June to July 1919 Draftsman, Armour & Co., Kansas City, Mo., designing minor improvements to packing plant. TT 0.1: SP 0.1. - July 1919 to date with E. T. Archer & Co., Mun. Engrs., Kansas City, successively as Res. Engr., Office Engr., Asst. Engr. and Chf. Engr., in charge of paving at Stafford and Oberlin, Kans., and Pawnee, Nebr., water-works at Newton, Iowa, and Stafford and sanitary sewers at Oberlin and Stockton, Kans., designed and was responsible for construction of street improvements and storm sewers at Blytheville, Ark. (about \$500 000), street and water-works improvements and sanitary sewers at Shawnee, Okla. (about \$2 000 000), and minor construction in Kansas, Arkansas, Missouri, Oklahoma, Nebraska, etc.; as Chf. Engr. has been responsible (in recent years) for all construction, design, etc. TT 11.6: P 11.6: RC 8: D 3.5.—TT 16.7: SP 1.1: P 15.6: RC 8: D 3.5. Refers to W. G. Black, E. Boyce, O. H. Horner, A. A. Laird, H. Miller, B. R. Mullen, J. O'Neil, J. W. Shikles, L. R. Tillotson, M. W. Watson.

(5) WICK, GEORGE ALLEN, 5023 Illinois Ave. N. W., Washington, D. C. (Age 30. Born Washington, D. C.) 1923 B. S., Coll. of Eng., Univ. of Md. TT 4: P 4.—March 1924 to date with Rosslyn Steel & Cement Co., estimating and detailing reinforcing bars, preparing placing drawings and designing reinforced-concrete structures, since Nov. 1928 being Chf. Engr. in charge of engineering office. TT 5.9: SP 1: P 4.9: RC 3.7: D 5.7.—TT 9.9: SP 1: P 8.9: RC 3.7: D 5.7. Refers to E. L. Davis, J. M. Gongwer, J. W. Oehmann, C. B. Rafter, A. J. Scullen, G. B. Strickler, W. T Webb.

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(16) WILKES, EDMUND, Jr., 600 Mutual Bldg., Kansas City, Mo. (Age 45. Born Blackburn, Mo.) 1909 B. S. in C. E., Univ. of Mo. TT 4: P 4.—June to Dec. 1909 with U. S.

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Born 1926 design ection, 26 to design and of New prodevel-

Sept. School P 0.4: co, Ill., Reclamation Service as Rodman and Levelman in charge of party on detached work at Ballantine, Mont., on location of irrigation ditches, surveys, plats, profiles, designs for small structures, some building plans. TT 0.4: SP 0.1: P 0.3: RC 0.3. March 1910 to Feb. 1911 with Waddell & Harrington, Cons. Engr., Kansas City, Mo., as Inspector on timber cribs, pile driving, concrete piers, steel superstructure and timber deck for Hawthorne Ave. Bridge over Willamette River at Portland, Ore., and (2 months) Draftsman in drafting room. TT 0.5: SP 0.5 .- Feb. 1911 to Dec. 1914 Detailer, Designer and Checker, Bridge Dept., Kansas City Terminal Ry. Co., on detail design of foundations and superstructures of about 20 subways. viaducts and bridges, including a large river bridge, also grade separation and special assignments. TT 3.8: P 3.8: RC 0.8: D 0.8 -- Feb. to Aug. 1915 Designer and Engr., Lehrack Contr. & Eng. Co., Kansas City, Mo., designing reinforced concrete grain elevators, calculations and details. TT 0.5: P 0.5: RC 0.5: D 0.5 -- Sept. 1915 to March 1920 Jun. Structural Engr. and later Senior Structural Engr., Bureau of Valuation, Interstate Commerce Comm., as Recorder, then in charge of party on inventory and appraisal of service condition of railways in middle west, also prepared estimating tables and some final reports of structural branch. TT 4.5: P 4.5: RC 2.2: D 1.1.-April 1920 to March 1922 Cons. Engr. on design of industrial buildings, bridges and on surveys. TT 2: P 2: RC 2: D 2 .-- March 1922 to date Chf. Structural Engr., Jones-Hettelsater Constr. Co., Kansas City, Mo., designed and supervised design of over 180 reinforced concrete grain elevators, flour and feed mills and industrial buildings in several states, including Pillsbury Flour Mills Co., Washburn Crosby Co., International Milling Co., Minneapolis, Minn. and Ralston-Purina Co., St. Louis, Mo., etc.; also investigated soil conditions and design of special foundations, inspection and had joint or partial supervision of buildings under construction, investigations of materials and methods and general research in field of building materials, also writing and approving specifications. TT 9: P 9: RC 8.7: D 8.7.—TT 24.7: SP 0.6: P 24.1: RC 14.6: D 13.1. Refers to E. B. Black, F. M. Cortelyou, A. R. Eitzen, J. L. Harrington, C. S. Harper, W. Kiersted, F. B. Scheetz, H. C. Tammen, N. T. Veatch, Jr. 253

(1) WILLIAMS, JOHN CHARLES, 78 Fourth St., Stamford, Conn. (Age 49. Born New Haven, Conn.) 1904 Ph. B., Yale Univ. TT 2: P 2.—Summer 1903 Inspector, New Haven (Conn.) Water Co., inspecting cement .-- Aug. to Nov. 1905 Inspector, S. N. E. T. Co., New Haven, on inspection of clay conduit-pipe at South River, N. J. TT 0.2: P 0.2: RC 0.2 .-Jan. 1906 to Oct. 1907 with New York, New Haven & Hartford R. R. Co., New Haven, as Rodman on surveys and Inspector on three reinforced concrete and two girder bridges and retaining walls. TT 1.8: P 1.8 .- Oct. 1907 to April 1916 Surveyman, Inspector and Jun. Civ. Engr., and Oct. 1916 to Dec. 1918 and Nov. 1919 to Jan. 1923 Jun. Civ. Engr., U. S. Corps of Engrs., New Haven and New London, Conn. and Providence, R. I., surveying, dredging, breakwater fortifications, materials inspection and testing, designed wharf, ferry slips, basin, etc., at Providence. TT 13.8: P 13.8: RC 3: D 0.5.-April to Oct. 1916 Inspector, Travelers Insurance Co., Hartford, Conn., supervising reports and research work in Eng. Div. TT 0.5: P 0.5 .- Dec. 1918 to Nov. 1919 Asst. City Engr., Bridgeport, Conn., general municipal engineering, pavements, sewers, sidewalks and surveying. TT 0.9: P 0.9: RC 0.9: D 0.9.—Jan. 1923 to date City Engr., Stamford, Conn., being in charge of all engineering work and Director of Public Works, pavements, sewers, sidewalks, pumping station, wharf, surveys, reports, incinerator, etc. TT 8: P 8: RC 8: D 8.—TT 27.2: P 27.2: RC 15.2: D 1.4. Refers to C. M. Blair, E. W. Crawley, A. S. Lynch, J. F. Lynch, H. Miller, E. B. Snell, D. J. H. Webb.

(16) WILLIS, ROBERT MILLS, Box 231, Chanute, Kans. (Age 36. Born Cripple Creek, Colo.) June 1916 to June 1917 Transitman and Draftsman with Hills & Willis, Min. Engrs., Cripple Creek, Colo., on surveys. TT 0.5: SP 0.5 .- July 1917 to Dec. 1920 with Primos Chemical Co. (Vanadium Oil Co. of America), until Jan. 1918 as Transitman and Draftsman, then Engr. in charge of mine surveys in Colorado, geologic reports, some mine and mill building construction. TT 3.2: SP 0.2: P 3: RC 3.—April, 1921 to Oct. 1922 mine leasing and contracting in Cripple Creek Dist. TT 0.8: SP 0.8 .- Nov. 1922 to Oct. 1923 associated with his father, F. G. Willis, Min. Engr., Baxter Springs, Kans., as Engr. on surveys. TT 0.9: P 0.9: RC 0.9. Oct. 1923 to May 1925 and Oct. 1926 to Nov. 1927 with Cherokee County, Kans., first as Asst. County Engr. on road surveys and plans and bridge design, and after Oct. 1926 Res. Engr. on Federal Aid projects, in charge of construction of concrete and gravel roads, grade separations and bridges. TT 2.3: SP 0.3: P 2: RC 1.5: D 0.5 .-May to July 1925 on road plans for Bourbon County, Kans. TT 0.2: P 0.2: RC 0.2: D 0.2 .- July 1925 to Sept. 1926 Transitman on location, Slab Inspector and Asst. Project Engr. on construction, Missouri Highway Dept. TT 0.6: SP 0.6 .- Nov. 1927 to date Asst. Div. Engr., Kansas State Highway Comm., until March 1929 having advisory supervision of

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county construction and maintenance and since April 1929 in charge of highway construction in Fourth Div. TT 3.3: P 3.3: RC 1.9: D 0.2.—TT 11.9: SP 2.5: P 9.4: RC 7.5: D 0.9. Refers to H. D. Barnes, W. V. Buck, C. I. Felps, A. A. Laird, I. E. Taylor.

255 (7) WILSON, JOHN, 702 Nineteenth Ave. East, Duluth, Minn. (Age 55. Born Dodgeville, Wis.) 1903 B. S. C. E., Univ. of Wis. 1908 M. S., Univ. of Minn. TT 4: P 4 .-- 1903 to 1906 with Chicago & Alton Ry., as Instrumentman and Res. Engr. on construction (18 miles). Springfield to Murryville, Ill. TT 2.7: P 2.7: RC 1 .-- 1906 to 1907 Instrumentman, Northern Pacific Ry., on location, TT 1; P 1,-1907 to 1908 Engr., State Agricultural Coll., St. Paul. Minn., in charge of constructing and supervising operation of sewer system and disposal plant. TT 1: P 1: RC 1 .-- 1908 to 1911 City Engr., Mankato, Minn., planning and supervising improvements of water-works and sewers, street paving and maintenance, also supervising water-works operation. TT 3: P 3: RC 3 .- 1915 to 1923 in private practice on water-works, sewerage, sewage-treatment plant and paving construction, including sewer systems and treatment plants at New Prague, Canby, Wadena and Worthington, Minn., sewage-treatment plants at Anoka and Keewatin, Minn., and Mason City. Iowa, water-works at North Munkato, Madison Lake, Wadena and Crosby, Minn., water-works and sewers at Cloquet. Minn., and sewer system, Sandstone, Minn. TT 8: P 8: RC 8: D 4.-1911 to 1915 and 1923 to date with City of Duluth, Minn., until 1912 as Special Asst. City Engr. on sewer design, and remainder of time City Engr., on design and construction of sewers, roads, pavements, bridges, etc. (since 1923 about \$900 000 annually). TT 12: P 12: RC 12: D 9.-TT 31.7: P 31.7: RC 25: D 13. Refers to F. Bass. O. E. Brownell, J. Carson, J. A. Childs. J. S. Dodds, J. L. Pickles, W. H. Woodbury.

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(5) WIRE, CHARLES RAYMOND, 3521 Rittenhouse St. N. W., Washington, D. C. (Age 29. Born Poolesville, Md.) 1923 C. E., Lehigh Univ. TT 4: P 4 .--June 1923 to Jan. 1930 with Chas. E. Wire, Washington, D. C., until July 1924 as Engr. of Constr. and on design of some reinforced concrete and steel parts of Park theatre, being Gen. Supt. and Engr. in charge; then designed and supervised development of two communities, one of 19 high-class residences and one (Blagden Park) of 30 homes (\$35 000 to \$65 000 each), drew plans, laid out grades and superintended construction, including streets, roadways, alleys, walks, etc. TT 6.6: P 6.6: RC 4.6: D 2 .- Jan. to July 1930 designed and superintended construction of structural steel, reinforced concrete, etc., for remodeling of numerous buildings (independent work). TT 0.5: P 0.5: RC 0.5: D 0.5. July 1930 to date Archt., Engr. and Gen. Supt. of Constr., on St. Paul M. E. Church, South, Washington, D. C.; designed drawings and details, including steel trusses, structural steel, reinforced concrete, masonry, frame work, etc.; has also designed and superintended stores, offices, reinforced concrete retaining walls, swimming pool, residences, also laying out of grades and streets for new subdivisions requiring surveying, computing cuts and fills, etc. TT 0.6: P 0.6: RC 0.6: D 0.6. TT 11.7: P 11.7: RC 5.7: D 3.1. Refers to S. A. Becker, W. F. Carson, R. J. Fogg, M. O. Fuller, H. G. Payrow, L. F. Shoemaker, Jr., E. H. Uhler. 257

(11) WRIGHT, GRAYDON CLIFTON, 824 South College Ave., Ft. Collins, Colo. (Age 22. Born Sioux Rapids, Iowa.) 1930 B. S. in C. and I. E., Colo. Agri. Coll. TT 4: P 4.—June 1930 to date Jun. Engr., U. S. Bureau of Reclamation, on research work, testing models of Cle Elum and Hoover Dam Spillways. TT 0.5: P 0.5.—TT 4.5: P 4.5. Refers to E. W. Lane, R. L. Parshall, C. Rohwer.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

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(14) BUNN, PAUL KING, Assoc. M., Box 262, St. Charles, Mo. (Elected March 16, 1925.) (Age 39. Born Buffalo Grove, Iowa.) 1914 B. S. in C. E., Univ. of Kans. TT 4: P 4.—June to July 1914 Chainman, Chicago, Rock Island & Pacific Ry.—July 1914 to Oct. 1917 Jun. Civ. Engr., and Jan. to Nov. 1919 Senior Civ. Engr., Bureau of Valuation, Interstate Commerce Comm., on railway valuation, field work, depreciation inventory and cross-sectioning track. TT 3.5: SP 0.5: P 3.—Oct. 1917 to Jan. 1919 Private 2d Lieut., 29th Engrs., U. S. Army, topographic maps, roadmaking and intelligence work. TT 0.8: SP 0.5: P 0.3:—Nov. 1919 to Aug. 1920 Draftsman, Leavenworth County, Kans., designed concrete roads and reinforced concrete bridges and culverts for Federal Aid work. TT 0.8: P 0.8: D 0.8.—Aug. to Nov. 1920 Res. Engr., Wyandotte

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County, Kans., in charge of Federal Aid road and bridge construction. TT 0.3: P 0.3: RC 0.3 .- Nov. 1920 to Jan. 1922 Asst. Res. Engr., Leavenworth County, Kans., in charge of Federal Aid concrete road construction (6 miles), with grading culverts and slab. TT 1.2: P 1.2: RC 1.2.—Jan. to March 1922 Res. Engr., V. V. Long & Co., Oklahoma City, Okla., in charge of paying and sewer construction, Wynnewood and Pauls Valley, Okla. TT 0.2: P 0.2: RC 0.2. March 1922 to date with Missouri Valley Bridge & Iron Co., as Timekeeper (1 month), Dumas, Mo., Contr.'s Engr. on pneumatic piers (13) across Columbia River, Kennewick, Wash. and open piers (11) for L. & N. Ry., Rigolets, La., Supt. and Contr.'s Engr. (3 months) on pneumatic piers (12) and 70-ft. sheet piling (1 500 ft.). Canadian, Tex., Supt. on pneumatic piers in Guthrie (2) Okla., Richmond, Tex. (2) Chillicothe, Ill. (4), Wellton, Ariz. (11) and Louisiana, Mo. (3), and two open piers in Wellton, three open and seven pedestal piers in Louisiana, Mo., eight open and 35 pedestal piers in Airo, Ill., and two air and two open piers in Augusta, Ark.; at present on two air and three open piers over Missouri River in St. Charles, Mo. TT 8.9: SP 0.1: P 8.8: RC 7.3.-TT 19.7: SP 1.1: P 18.6: RC 9: D 0.8. Refers to W. V. Buck, L. M. Bush, E. H. Connor, E. E. Howard, C. H. Kendall, H. F. Nelson, C. A. Shockley, S. M. Smith, J. S. Worley.

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(2) CHILDS, JOHN WARREN, Assoc. M., State Highway Dept., Concord, N. H. (Elected March 15, 1926.) (Age 42. Born Henniker, N. H.) 1909 A. B., Dartmouth, Coll. 1911 C. E., Thayer School of Civ. Eng. TT 4: P 4 .- April 1909 to March 1910 Chainman, Rodman and Topographer, Grand Trunk Pacific Ry. TT 0.5: SP 0.3: P 0.2.—Jan. 1912 to March 1916 Surveyman and Jun. Engr., U. S. Reclamation Service, on canal location, topographic surveys, construction inspection and (11/4 years) designing canals and structures, including drops, dams, spillways and bridges. TT 4.2: P 4.2: D 1.5 .-- April 1920 to June 1923 Engr., J. A. Greenleaf & Sons Co., Auburn, Me., in charge of engineering, design and construction of mill buildings, construction of buildings and bridges. TT 3.2: P 3.2: RC 3.2: D 0.8. March to Sept. 1910, April 1916 to March 1920 and July 1923 to date with New Hampshire State Highway Dept. as follows: March to Sept. 1910 Inspector and Chf. of survey party on construction and location: April 1916 to March 1920 Office Engr. in charge of engineering for plans of highway work, concrete structures and bridges, some field consultation; July 1923 to March 1925 Div. Engr., Div. 10, in charge of highway and bridge construction and maintenance; April 1925 to March 1930 Bridge Engr. in charge of all bridge design and construction for State, also some consultation not under State control; since April 1930 Deputy Commr. in charge of structures and highway maintenance, also of bridge work and supervising road maintenance. TT 12.2: P 12.2: RC 12.2: D 0.5.—TT 24.1: SP 0.3: P 23.8: RC 14.8: D 2.8. Refers to A. H. Ayers, F. E. Everett, R. Fletcher, W. A. Grover, C. A. Holden, J. W. Storrs, S. P. Waldron. 260

(5) CONNER, CARLTON NUDD, Arsoc. M., 938 National Press Bldg., Washington, D. C. (Elected June 24, 1914.) (Age 48. Born Waterville, Me.) 1908 B. S. in Civ. Eng., Tufts Coll. TT 4: P 4 .- 1910 to 1914 Asst. Engr., Bureau of Public Works, Philippine Islands, 1 year on irrigation design and construction, then on bridge design. TT 3.3: P 3.3: RC 3.3: D 2 .- 1914 to 1917 Asst. Engr., U. S. War Dept., Ohio River, on design of locks and dams. TT 3.8: P 3.8: RC 3.8: D 3.8.—1917 to 1918 Designer, Navy Dept., Bureau of Yards and Docks, on buildings, docks, piers, railroads and highways, TT 0.7: P 0.7: D 0.7.-1918 to 1921 Asst. Engr., State of Delaware, on design and construction of roads and bridges. TT 3.3: P 3.3: RC 3.3: D 3.3.—1921 to 1925 State Constr. Engr., State of North Carolina, on specifications, design and construction of roads and bridges. TT 4: P 4: RC 4: D 4.-1925 to 1926 Chf. Engr., Comm. National de Caminos, Mexico, D. F., directing engineering work. TT 0.9: P 0.9: RC 0.9 .- 1926 to 1928 Research Engr., Highway Research Board, Washington, D. C., on low-cost roads. TT 2: P 2: RC 2.-1928 to date Engr. Executive (Chf. Engr.), American Road Builders' Association, Washington, D. C., directing engineering activities. TT 3: P 3: RC 3 .-- TT 25: P 25: RC 20.3: D 13.8. Refers to H. K. Bishop, R. W. Crum, A. T. Goldbeck, C. E. Grubb, P. Y. K. Howat, E. R. Mack, F. D. Nash, T. W. Norcross, F. E. Schnepfe, P. K. Schuyler, R. E. Snowden, C. M. Upham, J. D. Waldrop, S. Walker.

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(10) DAVIS, BERRIEN WALKER, Assoc. M., 841 Sunset Ave., Rocky Mount, N. C. (Elected May 28, 1923.) (Age 36. Born Macon, Ga.) 1916 B. S. in C. E., and 1927 C. E., Ala. Pol. Inst. TT 4: P 4.—June 1916 to April 1917 Instrumentman and Draftsman, Georgia Southern & Florida Ry. TT 0.8: P 0.8.—April 1917 to Aug. 1919 2d Lieut., U. S. Army, U. S. and A. E. F. TT 1.1: SP 1.1.—Sept. 1919 to Sept. 1920 Asst. City Engr., Fayetteville, N. C., atreet paving (asphaltic concrete on Portland cement concrete base), sanitary and

storm sewer, reinforced concrete bridge and culvert. TT 1: P 1.—Sept. 1920 to Sept. 1925 with North Carolina State Highway Comm., until Jan. 1921 as Asst. Engr. on 8-mile road, asphaltic concrete on Portland cement concrete base and reinforced concrete bridges and culverts; Jan. 1921 to May 1923 Res. Engr. on 8-mile gravel and topsoil road and 15-mile road, asphaltic concrete on Portland cement concrete base, with reinforced concrete bridges and culverts; after May 1923 Asst. Dist. Engr., 1st Dist., Tarboro, N. C., supervising engineering and construction in twenty counties. TT 5: P 5: RC 5.—Sept. 1925 to date County Engr., Nash County, N. C., in charge of location, design, construction and maintenance of bridges and roads, located, designed, let to contract and engineered construction of 80 miles of gravel road, 12 miles of concrete road, one 60-ft. reinforced concrete bridge, five creosoted timber bridges, numerous concrete box culverts and untreated timber bridges on creosoted piling, maintenance of 9 000 ft. of steel and timber bridges, also supervised work on gravel road construction (38% miles). TT 5.5: P 5.5: RC 5.5: D 5.5.—TT 17.4: SP 1.1: P 16.3: RC 10.5: D 5.5. Refers to L. R. Ames, J. L. Becton, C. N. Conner, P. Y. K. Howat, G. T. Macnab, G. E. McNutt, G. F. Syme, D. Ulrich, C. M. Upham.

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(16) FUNK, NORMAN WILL, Assoc. M., 410 Tramway Bldg., Denver, Colo. (Elected Sept. 11, 1917.) (Age 44. Born Trinidad, Colo.) 1909 B. S. in C. E., Univ. of Colo. TT 4: P 4. July 1909 to April 1912 Detailer and Checker, Kansas City (Kans.) Structural Steel Co., on structural steel drawings for mill buildings, smelters, plate work, etc. TT 1.4: SP 1.4.-April 1912 to Jan. 1915 Designer and Checker, Kansas City (Mo.) Terminal R. R. Co., on steel viaducts and railroad bridges, TT 2.2: SP 0.5: P 1.7: D 1.7. Jan. to June 1915 with J. B. Klein Iron Foundry, Oklahoma City, Okla., in charge of squad, designing, detailing and checking structural steel. TT 0.4: P 0.4: RC 0.4. June 1915 to Jan, 1920 with Div, of Valuation, Interstate Commerce Comm., Kansas City, Mo., until 1917 as Jun. Structural Engr., then Senior Structural Engr., on inventory of railroad bridges, buildings, water- and coaling-stations, etc. TT 3.5: SP 1: P 2.5: RC 2.5 .- Jan. 1920 to date with Kansas City Structural Steel Co., Denver, Colo., until 1924 as Contr. Engr. and since then Dist. Sales Mgr., selling and designing structural steel for mill, office and other buildings, bridges, mining structures, plate work, etc. TT 11: P 11: RC 11: D 5 .- TT 23.5: SP 2.9: P 19.6: RC 13.9: D 6.7. Refers to C. A. Betts, E. B. Black, H. S. Crocker, F. W. Epps, H. A. Fitch. F. N. Lewis, F. B. Scheetz

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(3) HALSEY, WALLACE HAYNES, Assoc. M., Cameron Bldg., Southampton, N. Y. (Elected Junior, Jan. 7, 1908; Assoc. M., April 2, 1913.) (Age 49. Born Bridgehampton, N. Y.) Jan. to July 1903 successively Chainman with P. Elbert Nostrand and Rodman with Alexander Potter. TT 0.2: SP 0.2.—July 1903 to Jan. 1904 private practice, surveying. TT 0.5: -Jan. 1904 to June 1906 Asst. Engr., and June 1906 to Oct. 1912 Engr. and Surveyor, Shell Fisheries, Suffolk County, N. Y.; surveyed about 80 000 acres of oyster land and natural beds; also Aug. to Nov. 1908 and Feb. to July 1909 Chf. Engr., Gardiners Bay Co. of Amagansett, N. Y., on surveys (about 700 acres), of sewer pipe (about 6 000 ft.), concrete bridge (\$3 000) and concrete power plant (\$40 000); Nov. 1908 to Feb. 1909 Res. Engr. for same company under Hildreth & Co., Cons. Engrs.; Jan. 1911 to April 1912 making survey and establishing grade for Greenport, N. Y., designed catch basins, culverts and drains; July to Oct. 1912 Special Engr. to Bureau of Marine Fisheries of New York State. TT 8: SP 1.7: P 6.3: RC 6.3 .- Oct. 1912 to date in private practice of civil engineering and surveying; 1916-1917 designed and supervised about one mile of 36-ft. vitulithic pavement, grade and reset about two miles of stone curb in concrete, designed catch basins, storm sewers, etc. (total about \$90 000) for Village of Southampton, N. Y.; 1918 verified and monumented survey of Camp Upton, N. Y. (about 17 000 acres); has designed and supervised construction of several miles concrete highway-curbs and gutters for various towns and villages, private estates and developments, several creosote timber piers and several miles of bulkhead for private clubs, owners and developers, designed steel sheet pile jetties for Town of East Hampton, 3-mile harbor inlet, Gardiners Bay (about \$50 000, 1st section \$13 000), supervised excavation by hydraulic dredge and crane; at present designing steel pier and yacht basin for Noyack-Southampton Yacht Club, Peconic Bay (to cost about \$45 000), also Cons. Engr. for Villages of Southampton and Quogue, N. Y., and Town of East Hampton, N. Y., and on two private jobs, designing jetties, piers and bulkheads, on hydraulic and crane dredging, triangulation surveys, etc. TT 18.3: P 18.3: RC 17: D 1 .-- TT 27: SP 1.9: P 25.1: RC 23.3: D 1. Refers to W. Bowie, F. L. Francisco, V. Gelineau, E. P. Goodrich, R. A. Meeker, R. S. Patton, A. Potter, A. O. Smith, E. R. Smith, L. E. Van Etten.

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(7) HARDIN, EUGENE ALBERT, Assoc. M., 13574 Mendota Ave., Detroit, Mich. (Elected July 12, 1926.) (Age 35. Born Ottawa, Kans.) 1918 B. A., Baker Univ. 1921 B. S., Mass. Inst. Tech. TT 4: P 4.—Sept. 1917 to Jan. 1918 (while student) Instructor's Asst., mechanical drafting, Baker Univ .- Jan. 1918 to July 1919 with Medical Corps. U. S. Army, from June 1918 to July 1919 with A. E. F., France; July and Aug. 1918 acted as Foreman of construction of water and sewer system for hospital camp. Base Hospital No. 28, Limoges, France and Feb. to June 1919 special student in Universite d'Aix-Marseille. TT 0.1: SP 0.1.—March to June 1921 (while student) Instructor, surveying and field work, Massachusetts Inst. of Technology.—June to Aug. 1921 Engr., Baker Univ., Baldwin, Kans., designed and supervised construction of Athletic Field, grading and underdrain system, foot-ball field and cinder running-track. TT 0.2: P 0.2: RC 0.2.-Aug. 1921 to Feb. 1925 Hydr. and Structural Designer with Black & Veatch, Cons. Engrs., Kansas City, Mo. TT 3.5: P 3.5: RC 3.5: D 2.5.—March 1925 to date Designing Engr., Filtration and Asst. Civ. Engr., Dept. of Water Supply, Detroit, Mich., in charge of design of filtration plants and allied structures with complete functional and structural designs and details, plans, specifications and contracts. TT 6: P 6: RC 6: D 6. -TT 13.8: SP 0.1: P 13.7: RC 9.7: D 8.5. Refers to E. B. Black, J. F. Brown, E. H. Dunmire, G. H. Fenkell, A. B. Morrill, F. H. Stephenson, N. T. Veatch, Jr.

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(13) MORTON, ROBERT MILLER, Assoc. M., 3 Twelfth Ave., San Francisco, Cal. (Elected April 30, 1912.) (Age 45. Born Wampum, Pa.) 1906 B. S., Washington & Jefferson Coll.-July 1906 to Nov. 1913 with Office of Public Roads, until March 1908 successively as Civ. Engr. Student, Jun. Asst. Highway Engr. and Asst. Highway Engr., on road building, investigational and research work, surveys and estimates, being Engr. on Constr. and Special Representative, in various parts of United States, and after March 1908 (inactive) on occasional assignments. TT 1.7: P 1.7 .- March 1908 to Nov. 1913 Chf. Engr., San Joaquin County (Cal.) Highway Comm., on \$2 000 000 highway construction project, constructed 240 miles of county highways, had charge of estimates for bond issue, surveys, locations, designs for highways and bridges, specification, inspection of contracts, supervision of day labor, executive management of highway engineering, construction, etc. TT 5.7: P 5.7: RC 5.7: D 5.7.-Jan. 1912 to April 1915 in private practice, Stockton, Cal., general engineering work, land and mine surveys, reclamation and drainage districts and irrigation and highway projects and valuation work. TT 1.4: P 1.4: RC 1.4: D 1.4.—April to Dec. 1915 Constr. Supt., California Highway Comm., Sacramento, investigation and reports on state highway routing problems in San Joaquin, Sacramento and Napa Counties, in charge of construction forces on state highways in Sacramento County. TT 0.7: P 0.7: RC 0.7.-Dec. 1915 to Dec. 1919 Chf. Engr., Sacramento County (Cal.) Highway Comm., prepared estimates and supervised construction (bond issue, \$1750000), having charge of surveys, location, bridge and highway designs, specifications, inspection of contracts, executive management; constructed 150 miles of county highways. TT 4: P 4: RC 4: D 4 .- Jan. 1920 to July 1922 Chf. Engr., San Diego County (Cal.) Highway Comm., constructed 100 miles of county highways, had charge of surveys, location, bridge and highway designs, specifications, inspection of contracts, executive management (bond issue, \$2 300 000). TT 2.6: P 2.6: RC 2.6: D 2.6. Jan. 1923 to Feb. 1928 State Highway Engr. of California, supervised surveys, locations, bridge and highway designs, specifications, types and standards of work, inspection of contracts, selection of projects, etc. TT 5.2: P 5.2: RC 5.2.—June 1928 to date Vice-Pres. and Director, American Bitumuls Co., San Francisco, manufacturing and selling asphaltic emulsions for highway construction and maintenance and industrial processes in United States; two years on industrial surveys for factory location and construction; six months general sales work. TT 2.6: P 2.6: RC 2.6. TT 23.9: P 23.9: RC 22.2: D 13.7. Refers to E. E. East, L. I. Hewes, C. P. Jensen, G. W. Jones, T. E. Stanton, Jr., C. B. Wing. 266

(12) NEWELL, ROBERT J, Assoc. M., Box 583, Boise, Idaho. (Elected Feb. 1, 1910.) Born Columbus Junction, Iowa.) 1904 B. C. E., and 1910 C. E., Highland Park Coll., Des Moines, Iowa.-May 1903 to Aug. 1904 Eng. Aid, and Aug. 1905 to July 1908 Asst. Engr., U. S. Reclamation Service, on irrigation surveys and construction of Boise River diversion dam. TT 3.6: SP 0.6: P 3.—Sept. 1904 to July 1905 Prof. of Civ. Eng., Highland Park Coll. TT 0.9: P 0.9.—Aug. 1908 to May 1911 Asst. Engr., Twin Falls Salmon River Land & Water Co., on construction of Salmon River dam (concrete arch, 229 ft. high), near Twin Falls, Idaho. TT 2.8: P 2.8. May 1912 to July 1913 Res. Engr., Great Shoshone & Twin Falls Water Power Co., on construction of American Falls and Upper Salmon dams and power plants. TT 1.2: P 1.2: RC 1.2. Aug. 1913 to Feb. 1923 (total 21/2 years) in private practice, irrigation work in Idaho. TT 2.5; P 2.5; RC 2.5; D 1.5.—June to Oct. 1914 Asst. Engr., Red Cross Comm. on flood control in China. TT 0.4; P 0.4.—Sept. 1915 to Nov. 1916 Engr. in charge of sewer, sidewalk and curb construction, Mountain Home and American Falls, Idaho. TT 1: P 1: RC 1: D 0.5.—March 1923 to date with U. S. Bureau of Reclamation, until March 1926 as Associate Engr. on investigation and report of proposed irrigation projects in Oregon, Idaho and Colorado River Basin, and since April 1926 Supt. on operation of Boise project, construction of drains and Deadwood dam. TT 7.9: P 7.9: RC 7.9: D 2.5.—TT 20.3: SP 0.6: P 19.7: RC 12.6: D 4.5. Refers to J. B. Bond, F. T. Crowe, J. L. Savage, R. F. Walter, F. E. Weymouth, A. J. Wiley.

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(1) SCHWIND, RAYMOND CHARLES, Assoc. M., 52 Spruce Ave., Ridgefield Park, N. J. (Elected Jan. 19, 1925.) (Age 37. Born Rochester, N. Y.) 1920 B. S. in C. E., and 1926 C. E., Clarkson Coll. of Tech. TT 4: P 4.—May 1920 to Feb. 1921 Draftsman until Nov. 1920 with Turner Constr. Co., New York City, on reinforced concrete buildings, then with Bogert & Pohl, New York City, on power development at Niagara Falls. TT 0.4: SP 0.4.—Feb. to Sept. 1921 Timekeeper and Estimator with Tucker & Lewis, New York City, on building construction. TT 0.2: SP 0.2.—Sept. 1921 to date Engr., Ferber Constr. Co., Hackensack, N. J., in charge of engineering, estimating and buying; Company designed and constructed, or constructed from plans and specifications, apartment and club houses, churches, schools, bank and office buildings, public buildings, garages, factories, mills, warehouses, boiler houses, etc. (about \$750 000 annually). TT 9.5 P 9.5: RC 9.5: D 3.—TT 14.1: SP 0.6: P 13.5: RC 9.5: D 3. Refers to A. P. Ackerman, F. C. Boes, H. B. Catlin, D. G. Fishbeck, W. S. Lozier, C. A. Pohl, F. C. Wilson.

FROM THE GRADE OF JUNIOR

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(11) GERHART, ROBERT WHITFIELD, Jun., 1200 North Main St., Los Angeles, Cal. (Elected July 12, 1926.) (Age 27. Born Kansas City, Mo.) 1925 B. S., Coll. of Civ. Eng., Univ. of Cal. TT 4: P 4.—Dec. 1925 to April 1929 with Univ. of California, until Nov. 1927 as Asst. Univ. Engr., Office of Comptroller, on surveys, investigation, design and inspection of civil engineering work, including charge of layout of new university, involving buildings, roads, utilities, etc., then Asst. Supt. of Constr. for Superv. Archt., inspecting and superintending reinforced concrete, structural steel and brick buildings, roads, utilities, etc. (\$3 000 000). TT 2.9: SP 0.5: P 2.4: RC 2.4: D 1.—April 1929 to date Mechanic, Production Expeditor and at present Production Dept. Engr., Consolidated Steel Corporation, Ltd., Los Angeles, also Asst. Supt. of Constr. of structural steel fabricating plant near Maywood, Cal. (over \$1 000 000). TT 1.3: SP 0.6: P 0.7: RC 0.7.—TT 8.2: SP 1.1: P 7.1: RC 3.1: D 1. Refers to R. E. Davis, O. Dunkel, A. G. Roach, A. van Rensselaer, A. J. Werner.

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(4) GREEY, ELMER BLOOMFIELD, Jun., Box 315, Princeton, N. J. (Elected June 7, 1926.) (Age 31. Born New York City.) 1920 C. E., Princeton Univ. TT 4: P 4.—June 1920 to Feb. 1921 Production Apprentice, Taylor-Wharton Iron & Steel Co., High Bridge and Easton, Pa., plants, in Drafting Room, Inspection and Production Depts. TT 0.3: SP 0.3. Feb. to Nov. 1921 with Wm. Wharton, Jr., Co., until June 1921 as Inspector of trackwork, then Laboratory Asst. on chemical and physical tests of steel and iron, and after Aug. 1921 Asst. Engr., Eng. Dept., on design of track layouts, switches, frogs and crossings. TT 0.8: P 0.8: D 0.3.—Nov. 1921 to date with Matthews Constr. Co., Princeton, N. J., until Jan. 1924 as Engr. laying out work, surveying, in charge of construction of steam tunnels, ducts and coal bunkers, design and construction of sewagedisposal plants for country estates and (1 year) organizing building construction (\$75 000 to \$500 000); Jan. to Feb. 1924 on quantity surveys and estimating; Feb. to Nov. 1924 Constr. Engr. on Cornell Union Bldg. (\$1 000 000), Ithaca, N. Y.; Nov. 1924 to April 1925 Supt. of Constr., 1901-Laughlin Dormitories (\$500 000); April 1925 to March 1927 Estimator on construction of buildings, etc. (\$50 000 to \$2 500 000); since March 1927 Chf. Engr. and Director in charge of engineering, estimating appraisals, purchasing and subcontracting. TT 9.3: P 9.3: RC 9.2: D 1.2.—TT 14.4: SP 0.3: P 14.1: RC 9.2: D 1.5. Refers to G. E. Beggs, F. H. Constant, J. J. Grelis, Jr., E. A. MacMillan, E. M. Plump, F. N. Willson.

(7) HUGHES, CONARD PERCY, Jun., Care, Firestone Tire & Rubber Co., Milwaukee, Wis. (Elected Jan. 13, 1930.) (Age 29. Born East Jordan, Mich.) 1926 B. S. in Eng., Antioch

Coll. TT 4: P 4.—1920 to 1922 associated with Bert Hughes, Contr., Indianapolis, Ind., on transit work, staking out lots and Asst. to Supt. on construction of bungalows and concrete pavement, east coast of Florida. TT 1: SP 1.—1922 to 1923 (co-operative work) Foreman in charge of concrete placement on hydro-electric dam in Iowa, and Oct. to Dec. 1929 Gen. Supt. on reinforced concrete and steel bridge, for Price Bros. Co., Dayton, Ohio. TT 0.3: P 0.3: RC 0.3.—1926 to 1927 with Mathewson-Hedges, Inc., on architectural drawings of steel and wood partitions, design and erection. TT 1: P 1: RC 1: D 1.—Oct. 1927 to Aug. 1929 Field Engr., Firestone Plantations Co., in Monrovia, Cape Palmas and Liberia, West Africa, in charge of field operations, designed and constructed bridges, located and built roads and constructed dwellings, and Jan. 1930 to date Field Engr., Firestone Tire & Rubber Co., Akron, Ohio, in charge of field operations and construction work in western divisions. TT 3: P 3: RC 2.7: D 2.7.—TT 9.3: SP 1: P 8.3: RC 4: D 3.7. Refers to E. L. Chandler, C. F. Maynard, A. E. Morgan, P. C. Nash, C. H. Schwartz, R. E. Wilson.

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- (13) JERAULD, HENRY FRANKLIN, Jun., 1417 Thirty-Sixth St., Sacramento, Cal. (Elected Oct. 12, 1925.) (Age 31. Born Newport, Ky.) 1925 B. S., Ore. State Agri. Coll. TT 4: P 4.--June to Sept. 1918 Axeman and Rodman, and Feb. to Oct. 1919 Timekeeper. California Highway Comm. TT 0.4. SP 0.4.—June 1920 to Jan. 1921, June 1921 to Oct. 1922, March to Sept. 1923, June to Sept. 1924 and July 1925 to date with Joseph W. Gross, Municipal and Reclamation Engr., Sacramento, Cal., until July 1925 as Asst. Engr., successively on retracement surveys and reapportionment for reclamation district assessments, hydraulic investigation, mapping and analysis of abstracts for determination of water rights and underground water survey for irrigation project and in charge of installation of steel pressure pipe (30 miles) for irrigation district, hydraulic studies on use of water, Chf. of Party on subdivision surveys and preliminary location of gravity irrigation system for 5 000 acres, and engineering reports on irrigation projects and districts and general engineering, and since July 1925 Prin. Asst. Engr. on engineering reports for irrigation and reclamation districts. Res. Engr. on construction of irrigation works, municipal construction and general engineering, studies of water rights and use of water. TT 8: SP 0.2: P 7.8: RC 5.7: D 1.4. TT 12.4: SP 0.6: P 11.8: RC 5.7: D 1.4. Refers to J. B. Brown, E. N. Bryan, A. N. Burch, M. S. Edson, A. Givan, J. W. Gross, S. A. Hart, C. F. Mau, N. Silsbee, S. H. Sims, W. E. Stoddard.
- 272 (8) KERANEN, GEORGE MATTHEW, Jun., 7952 Vernon Ave., Chicago, Ill. (Elected Dec. 14, 1925.) (Age 30. Born Red Lodge, Mont.) Registered Structural Engr., State of Illinois. -1923 B. S., State Coll. of Wash. 1925 M. S., Univ. of Ill. TT 4: P 4.—Vacations 1921 and 1922 Instrumentman and Foreman, U. S. Forest Service, Kooskia, Idaho, responsible for repair and maintenance of trail and telephone lines (about 150 miles) .-- Summers 1923 and 1924 Draftsman, successively with Washington State Highway Dept., Olympia, Wash., on earthwork computation, drafting and some concrete design, and with Lackawanna & Western R. R. Co., Hoboken.-Sept. 1923 to June 1925 at Univ. of Illinois Eng. Experiment Station, as Graduate Student and (one-half of time) Research Asst. on special investigation of temperature stresses in continuous arches and in design of Scherzer bascule bridges.—June 1925 to Feb. 1927 Structural Draftsman and Designer with South Park Commrs., Chicago, Ill., designing, checking and acting as Squad Leader on foundations and superstructures for continuous girder bridges, sea walls and bulkheads. TT 1.6: P 1.6:R C 1.1: D 1.6.-Feb. 1927 to date Designer and Squad Leader, Standard Oil Co. (Ind.), Whiting, Ind., on design of refinery equipment, including bubble towers, exchangers, pipe stills, stacks, air heaters, etc., in active charge of design of a vacuum distillation unit (\$448 000) and investigation, reports, design and specifications for system (180 000 000-gal. daily) for collection, purification and disposal of Whiting refinery sewage (to cost over \$1 000 000). TT 4: P 4: RC 4: D 4.-TT 9.6: P 9.6: RC 5.1: D 5.6. Refers to R. A. Black, F. G. Brueckmann, J. R. Griffith, M. K. Snyder, C. C. Williams, W. M. Wilson. 273
- (1) LECLERCO, EMILE PAUL, Jun., 292 Lawton Ave., Grantwood, N. J. (Elected March 15, 1926.) (Age 28. Born Grantwood, N. J.) Licensed Prof. Engr. and Land Surveyor, State of New Jersey. 1925 B. S. C. E., and 1930 C. E., Manhattan Coll. TT 4: P 4.—June 1925 to date with McClave & McClave, Cons. Engrs., Cliffside, N. J., until Dec. 1928 as Chf. of Party and Res. Engr. on topographic surveys, real-estate developments, municipal improvements, highways, sewerage systems and sewage-treatment plants, and since Dec. 1928 Designer on steel and reinforced concrete for highways and sewage-treatment plants, studies, reports and design of storm- and sanitary-sewer systems, drainage, culverts and water supply, furnished testimony and prepared plans and details for various court cases, involving boundary

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disputes, zoning and accidents (vehicular traffic and railroad). TT 5.7: P 5.7: RC 3.7: D 2.

—TT 9.7: P 9.7: RC 3.7: D 2. Refers to C. L. Bogert, J. J. Costa, S. W. McClave, Jr., F. J. Oleri, R. C. Wheeler.

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(4) McWILLIAMS. DOUGLAS EDMUND, Jun., 130 East Sunbury St., Shamokin, Pa. (Elected July 6, 1925.) (Age 31. Born Shamokin, Pa.) 1921 A. B., Princeton Univ. 1924 B. S., Mass. Inst. Tech. TT 4: P 4 .- June 1921 to Oct. 1922 Mgr., Roaring Creek Water Co., Shamokin, Pa., on operation and management of water system. TT 0.7: SP 0.7. June 1924 to Jan. 1931 Pres., Bear Gap Water Co., and Mgr., Roaring Creek Water Co., Shamokin, on construction, operation and management of water companies, engaged as follows: May 1924 to Jan. 1925 enlarging earth fill dam with concrete core wall (approx. \$350 000) and constructing two concrete equalizing reservoirs (\$150 000); Jan. to Oct. 1925 remodeling office building (\$55 000); Jan. 1926 to Oct. 1927 choosing, planning, conducting and recording installation of 8 200 water meters on consumers services (approx. \$110 000); 1928 and 1929 planning and constructing water mains and service connections (\$125 000); April to Oct. 1930 valuation and purchase of Locust Mountain and Centralia Water Cos., all for Roaring Creek Water Co., April 1926 to Feb. 1927 constructing steam pumping station (4 000 000 gal. daily, \$175 000) for Bear Gap Water Co., and Oct. 1930 to Jan. 1931 planning and conducting sale of Bear Gap, Shamokin and Anthracite Water Cos. to Roaring Creek Water Co., and since Jan. 1931 Vice-Pres. and Mgr., Roaring Creek Water Co. TT 6.7: P 6.7: RC 6.7: D 1.4.-TT 11.4: SP 0.7: P 10.7: RC 6.7: D 1.4. Refers to N. J. Beisel, C. R. Berry, F. H. Dechant, N. B. Jacobs, J. S. McWilliams, T. E. Seelye.

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(14) MARR, JOHN GENTLE, Jun., 919 Louderman Bldg., St. Louis, Mo. (Elected July 16, 1928.) (Age 27. Born New York City.) Licensed Land Surveyor, New York State. 1925 B. S. and 1930 C. E., Rutgers Coll. TT 4: P 4.—June 1926 to March 1928 Asst. Engr., Commonwealth Associates, Inc., New York City, calculations for platting new subdivisions, earthwork, in charge boundary surveys and Asst. on supervision of construction. TT 1.8: P 1.8.—July 1925 to May 1926 and March 1928 to date with Harland Bartholomew and Associates, until Aug. 1928 as Res Engr., on estimates for development, calculations for plats and in charge of preliminary and boundry surveys, Key West, Fla., and (5 months) designing major street plan in Peoria, Ill.; since Aug. 1928 Asst. Engr., St. Louis office, designing major street plans and formulating zoning ordinances for various cities, making plans and writing reports on all phases of city planning, analyzing and designing special crossings and grade separations for traffic highways, contacting with City Plan Commissions of various cities in presenting plans and zoning ordinances. TT 3.7: P 3.7: RC 2.9: D 2.1.—TT 9.5: P 9.5: RC 2.9: D 2.1. Refers to H. Bartholomew, W. C. Berry, A. P. Greensfelder, W. A. Heimbuecher, R. W. Jablonsky, D. Kippel, H. N. Lendall, E. C. Renard.

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(13) SHAW, JOSEPH. Jun., 155 Sansome St., San Francisco, Cal. (Elected May 13, 1929.) (Age 32. Born Ashton-under-Line, England.) 1926 B. S., Univ. of Cal. TT 4: P 4.—Summers Instrumentman, San Joaquin Light & Power Co., Fresno, Cal. (1921), Asst. to Engr., Standard Oil Co., Kern River Refinery, Bakersfield, Cal., installing new equipment (1922), Levelman, Sugar Pine (Cal.) Lumber Co. (1924)—Feb. to Aug. 1925 and May 1926 to March 1930 with F. H. Tibbetts, San Francisco, Cal., 1½ years as Draftsman, computing, preliminary design of harbor development and land reclamation, etc., 1927 and 1928 Asst. Engr. collecting data, writing reports, general design of irrigation developments, engineering accounting, cost estimates, economic engineering investigations, specifications, etc., and (1928) design and office work, hydro-electric development studies for Nevada Irrigation Dist. and Anchorage Light & Power Co.; after Jan. 1929 Associate, being Office Engr., and from May 1929 to Feb. 1930 Res. Engr. in charge of Anchorage Light & Power Co. development in Alaska, including purchasing materials, construction, etc. (\$750 000). TT 4.1: SP 0.5: P 3.6: RC 2.3: D 2.4.-March 1930 to date Chf. Engr., W. A. Bechtel Co., Gen. Contrs., San Francisco, investigating, estimating, bidding, promoting and developing construction projects, managing engineering construction, particularly natural gas major pipe-line construction, arranging and executing subcontracts, etc. TT 0.9: P 0.9: RC 0.9: D 0.5.-TT 9: SP 0.5: P 8.5: RC 3.2: D 2.9. Refers to C. Derleth, Jr., C. G. Hyde, R. Matthew, F. H. Tibbetts, R. G. Wadsworth.

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(13) STEPHENSON, LOWELL JOSEPH, Jun., 4231 Montgomery St., Oakland, Cal. (Elected May 13, 1929.) (Age 31. Born Wellston, Ohio.) Oct. 1920 to April 1921 and Jan. to

April 1922 student, Stanford Univ. TT 0.5: P 0.5 .- June to Aug. 1919 Rodman and Recorder, Southern California Edison Co., Big Creek, Cal. TT 0.1: SP 0.1. Aug. 1919 to Oct. 1920 Rodman, Chainman and Machinist Helper, April 1921 to Jan. 1922 Transitman, on Kerchoff and Kern River projects, dam, tunnel, penstock and powerhouse construction, etc... May 1922 to Jan. 1923 Foreman, on reconstruction of Browns Creek Ditch, placing reinforcing steel in concrete box flume and concrete lined ditch, building concrete foundation plers for steel flume trestles, also line and grade, and May 1923 to March 1924 Transitman on reconstruction of Ditches Nos. 1, 2, 3 and Crane Valley System, all for San Joaquin Light & Power Corporation. TT 2.3; SP 1: P 1.3 .- March to May 1923 Constr. Inspector with Julia Morgan, Archt., San Francisco. TT 0.1: SP 0.1.—April to Sept. 1924 Asst. Engr. and Inspector, Pacific Portland Cement Co., Redwood City, Cal., in charge of inspection on construction of mill building, wharves and storage caissons, later Gen. Constr. Foreman. TT 0.4: P 0.4: D 0.2. Jan. to Dec. 1925 Rodman, Associated Oil Co., Avon, Cal., Inspector of Dumbarton Highway Bridge, San Francisco, on concrete pile construction, Asst. Supt. of Constr., Austin Co. of California, Oakland, and Rodman and Chainman, Land Dept., Pacific Gas & Elec. Co., San Francisco, TT 0.5; SP 0.5. Dec. 1925 to March 1926 Transitman. Shell Oil Co., Martinez (Cal.) Refinery, on construction of new Dubbs cracking plants and appurtenances, oil, fire and surface drains, fire levees and pipe roads. TT 0.3: P 0.3.-April to Dec. 1926 Transitman and Chf. of Party, Great Western Power Co., San Francisco, Cal., on base-line survey, Lake Almanor topography survey, road and intake construction, channel dredging and camp surveys. TT 0.7: P 0.7: RC 0.3 .- Dec. 1926 to March 1929 Transitman, Asst. Field Engr. and Field Engr. with Thebo, Starr and Anderton, Inc., San Francisco, on construction of Glines Canyon hydro-electric project for Washington Pulp & Paper Co., Port Angeles, Wash.; repair of Scott Dam, Snow Mt. Water & Power Co., Eel River, Cal., surveys, investigation, estimates and reports on various water-supply and power projects on Pacific Coast. TT 2.2: P 2.2: RC 0.5 .- April 1929 to March 1930 and Oct. 1930 Inspector of Constr., Port of Oakland, in charge of construction of Warehouse B, 14th St. Wharf extension and Transit Shed No. 2, Outer Harbor Terminal, etc. TT 0.9: P 0.9: RC 0.9 .- March to Aug. 1930 Asst. Engr. of Constr., Olympic Forest Products Co., Port Angeles, on construction of new water supply for City of Port Angeles, Olympic Forest Products Co. and Washington Pulp & Paper Co. and tunnels, concrete and stave-pipe construction. TT 0.5: P 0.5: RC 0.5. Nov. 1930 to date Res. Engr. for Ralph A. Beebee, San Francisco, on construction of Richmond Inner Harbor Seawall. TT 0.3: P 0.3: RC 0.3. -TT 8.9: SP 1.8: P 7.1: RC 2.7. Refers to A. H. Abel, J. G. Bastow, R. A. Beebee, H. K. Fox, M. J. Hyorslev, R. F. Krafft, W. B. McMillan, H. Schorer, F. M. Thebo, D. R. Warren.

(1) WOODWARD, HAROLD STONE, Jun., 1128 Clay Ave., Pelham Manor, N. Y. (Elected May 28, 1923.) (Age 31. Born Auburn, Mass.) 1922 C. E., and 1923 M. C. E., Cornell Univ. TT 4: P 4.—Sept. 1922 to June 1923 Instructor, School of Civ. Eng., Cornell Univ. TT 0.8: P 0.8.—June 1923 to March 1924 Civ. Engr., Atlantic Fruit Co., Cayo Mambi, Oriente, Cuba, on surveying, construction, etc. TT 0.7: P 0.7: D 0.2.—May 1924 to May 1926 Structural Engr. with Schenck & Williams, Archts., Dayton, Ohio, on design of buildings. TT 2: P 2: D 1.7.—May 1926 to date Structural Engr. with E. E. Seelye, Inc., New York City, since Dec. 1927 being Engr.-in-Chg. on design and occasional inspection of buildings. TT 4.8: P 4.8: RC 3.2: D 4.8.—TT 12.3: P 12.3: RC 3.2: D 6.7. Refers to N. J. Bell, F. A. Clampa, F. E. Conkling, Jr., E. W. Kurz, G. E. Lund, E. E. Seelye, A. L. Stevenson.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.